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# AMERICAN MATHEMATICAL SOCIETY

*Organized as the New York Mathematical Society, November, 1888*  
*Reorganized as the American Mathematical Society, July, 1894*

*List of officers and members*

(ANNUAL REGISTER)

JANUARY, 1911

*11-1-83*  
*a.p.*

NEW YORK  
PUBLISHED BY THE SOCIETY  
501 WEST 116TH STREET  
1911

PRESS OF  
THE NEW ERA PRINTING COMPANY  
LANCASTER PA

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Membership dues should be remitted to Professor J. H. TANNER, Treasurer, Cornell Heights, Ithaca, N. Y., by draft or money order, drawn payable to the AMERICAN MATHEMATICAL SOCIETY.

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The following dates have been fixed for the meetings of the Society during the year 1910:

Saturday, February 25,

Saturday, October 28,

Saturday, April 29,

Wed.-Th., December 27-28.

The meeting of December 27-28 will be the Annual Meeting of the Society for the election of officers.

Meetings of the Chicago Section will be held in the April and Christmas holidays. The San Francisco Section will meet on April 8 and October 28. The meeting of the Southwestern Section will be held in the Thanksgiving recess.

Papers intended for presentation at any meeting or sectional meeting of the Society should be sent to the Secretary or Secretary of the Section in advance of the meeting for submission to the Programme Committee, and should be accompanied by an abstract, suitable for publication in the BULLETIN, and a statement of the time required for presentation. Blanks for the entry of abstracts will be furnished by the Secretaries, on application.



# PUBLICATIONS

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## *Transactions* *of the* *American Mathematical Society*

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The TRANSACTIONS is devoted primarily to research in pure and applied mathematics, and is the official organ of the Society for the publication of important original papers read before it. The first number appeared in January, 1900.

Published quarterly by the Society. Subscription price \$5.00 per annum; to members of the Society \$3.75 per annum; back volumes at the same price. Subscriptions should be sent to the Treasurer of the Society, Professor J. H. TANNER, Cornell Heights, Ithaca, N. Y.



## PUBLICATIONS

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### *Bulletin* *of the* *American Mathematical Society*

CONTINUATION OF THE BULLETIN OF THE NEW YORK MATHEMATICAL  
SOCIETY

A HISTORICAL AND CRITICAL REVIEW OF MATHEMATICAL SCIENCE

---

EDITED BY

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Published by the Society. Issued monthly, except August and September. Sent free to members of the Society. Subscription price to non-members \$5.00. Members of the Society are entitled to receive back volumes of the present Series to complete their sets at \$4.00 per volume, so far as the supply permits. A member connected with an educational institution may order the current volume for its library at \$3.00.

Books for review and manuscripts intended for publication in the BULLETIN should be sent to the Committee of Publication. Subscriptions to the BULLETIN and orders for back numbers should be addressed to the Treasurer of the Society.

## PUBLICATIONS

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### *Published Papers. Vol. I.*

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MATHEMATICAL PAPERS READ AT THE INTERNATIONAL  
MATHEMATICAL CONGRESS HELD IN CONNECTION  
WITH THE WORLD'S COLUMBIAN EXPO-  
SITION, CHICAGO, 1893

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EDITED BY THE COMMITTEE OF THE CONGRESS:

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Containing papers by Bolza, Burkhart, Capelli, Cole, Dyck, Echols, Eddy, Fricke, Halsted, Heffter, Hermite, Hilbert, Hurwitz, Klein, Krause, Lemoine, Lerch, Macfarlane, Martin, Maschke, Meyer, Minkowski, Moore, Netto, Noether, D'Ocagne, Paladini, de Perott, Pervouchine, Pincherle, Pringsheim, Sawin, Schlegel, Schoenflies, Stringham, Study, Taber, Weber, Weyr.

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Published for the Society by The Macmillan Company, 1896.  
8vo, pp. 411. Price, \$3.00; to members of the Society, \$1.50.  
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## PUBLICATIONS

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### *The Boston Colloquium Lectures on Mathematics*

DELIVERED FROM SEPTEMBER 2 TO 5, 1903, BEFORE  
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By HENRY S. WHITE.
- II. Forms of Non-Euclidean Space.  
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By EDWARD B. VAN VLECK.
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Published for the Society by The Macmillan Company,  
1905. 8vo, pp. v + 175. Price, \$2.00; to members of the  
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# MEMBERS OF THE SOCIETY.

JANUARY 1, 1910.

Date of Admission.	Life members are designated by *.
1892, Nov.	ABBE, CLEVELAND, B.A., B.Sc., M.A., LL.D.; Member of the National Academy of Sciences; Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the <i>Bulletin of the Mount Weather Observatory</i> ; Associate Editor of <i>Beiträge zur Physik der freien Atmosphäre</i> ; Professor of Meteorology, U. S. Weather Bureau; Lecturer in Meteorology, Johns Hopkins University, Baltimore, Md. <i>U. S. Weather Bureau</i> , Washington, D. C.
1907, Apr.	ACKERMANN-TEUBNER, BENEDICTUS GUSTAV ALFRED A., Ph.D. (honorary, Greifswald); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo; Member of the Astronomische Gesellschaft; Member of the Deutsche Mathematiker-Vereinigung. Publishing House of B. G. Teubner, Leipzig, Germany. <i>Poststrasse, 3.</i>
1907, Oct.	AIYAR, V. RAMASWAMI, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society. Treasury Deputy Collector, Cuddapah, India.
1905, Oct.	AKERS, OSCAR PERRY, M.A., Ph.D. (Cornell); Member of the Circolo Matematico di Palermo; Professor of Mathematics, Allegheny College, Meadville, Pa.
1891, Nov.	ALEY, ROBERT JUDSON, M.A., Ph.D. (Pennsylvania), LL.D.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; Editor of the <i>Educator-Journal</i> ; President of the University of Maine, Orono, Me.

Date of  
Admission.

1901,	Dec.	ALLARDICE, ROBERT EDGAR, M.A.; Fellow of the Royal Society of Edinburgh; Member of the Edinburgh Mathematical Society; Professor of Mathematics, Stanford University, Cal.
1910,	Feb.	ALLEN, EDWARD SWITZER, B.A.; Harvard University, Cambridge, Mass. <i>34 Mellen Street.</i>
1897,	Dec.	ALLEN, JOSEPH, M.A.; Assistant Professor of Mathematics, College of the City of New York. <i>9 Myrtle Street, White Plains, N. Y.</i>
1905,	Oct.	ALLEN, REGINALD BRYANT, B.Sc., M.Sc., Ph.D. (Clark); Professor of Mathematics, Kenyon College, Gambier, Ohio.
1903,	Oct.	AMES, LEWIS DARWIN, M.A., Ph.D. (Harvard); Assistant Professor of the Teaching of Mathematics, University of Missouri, Columbia, Mo. <i>208 Thilly Avenue.</i>
1907,	Dec.	AMMERMAN, CHARLES, M.A.; Instructor in Mathematics, McKinley High School, St. Louis, Mo.
1901,	Dec.	ANDREWS, GRACE, B.Sc., Ph.D. (Columbia). <i>47 Brevoort Place, Brooklyn, N. Y.</i>
1903,	Oct.	*ARCHIBALD, RAYMOND CLARE, M.A., Ph.D. (Strassburg); Member of the Edinburgh Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Mathematical Association; Instructor in Mathematics, Brown University, Providence, R. I. <i>9 Charlesfield Street.</i>
1908,	Dec.	ARMSTRONG, GORDON NELSON, M.A.; Professor of Mathematics, Ohio Wesleyan University, Delaware, Ohio.
1901,	Oct.	ASHTON, CHARLES HAMILTON, M.A., Ph.D. (Munich); Member of the Circolo Matematico di Palermo; Associate Professor of Mathematics, University of Kansas, Lawrence, Kansas. <i>1200 Ohio Street.</i>
1907,	Dec.	ATCHISON, CLYDE SHEPHERD, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Williams College, Williamstown, Mass.
1906,	Feb.	BABB, MAURICE JEFFERIS, B.Sc., Ph.D. (Pennsylvania); Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. <i>157 Cricket Avenue, Ardmore, Pa.</i>



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1891, June	BAKER, ALFRED, M.A.; Fellow of the Royal Society of Canada; Member of the Société Mathématique de France; Professor of Mathematics, University of Toronto, Toronto, Canada.
1904, Oct.	BAKER, RICHARD PHILIP, B.Sc., Ph.D. (Chicago); Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, State University of Iowa, Iowa City, Ia. <i>929 Kirkwood Avenue.</i>
1894, Oct.	BARNUM, CHARLOTTE CYNTHIA, B.A., Ph.D. (Yale); U. S. Department of Agriculture, Washington, D. C.
1903, Aug.	BARTLETT, DANA PRESCOTT, B.Sc.; Member of Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1910, Sept.	BARTLETT, FRANK SARGENT, C.E.; Associate Member of the American Institute of Electrical Engineers. General Electric Company, Schenectady, N. Y. <i>131 Park Place.</i>
1909, Dec.	BARTON, RALPH MARTIN, B.A.; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, Dartmouth College, Hanover, N. H. <i>48 College Street.</i>
1892, Apr.	BARTON, SAMUEL MARX, B.A., Ph.D.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of the South, Sewanee, Tenn.
1891, Apr.	BASS, EDGAR WALES, Graduate of the U. S. Military Academy; Colonel U. S. Army, retired. <i>77 Park Avenue, New York, N. Y.</i>
1903, Oct.	BATES, WILLIAM HUNT, M.A., Ph.D. (Chicago); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, Purdue University, Lafayette, Ind. <i>306 Russell Street, West Lafayette.</i>
1900, Dec.	BAUER, GEORGE NEANDER, M.Sc., Ph.D. (Columbia); Professor of Mathematics, University of Minnesota, Minneapolis, Minn.
1909, Apr.	BAUER, WILHELMINE BABETTA, B.A.; Instructor in Mathematics, University of Kansas, Lawrence, Kan. <i>222 Topeka Avenue, Topeka, Kan.</i>
1910, Apr.	BEAL, FREDERICK WAKES, M.A.; Instructor in Mathematics, Brown University, Providence, R. I. <i>256 Doyle Avenue.</i>

Date of  
Admission.

- 1905, Feb. BECKETT, CHARLES HARRISON, B.A.; Associate Professor of Mathematics, Purdue University, Lafayette, Ind.
- 1906, Sept. BEEBE, WILLIAM, M.A.; Professor of Mathematics, Yale University, New Haven, Conn. *262 Bradley Street.*
- 1910, Sept. BEETLE, RALPH DENNISON, B.A.; Instructor in Mathematics, Dartmouth College, Hanover, N. H. *27 East Wheelock Street.*
- 1891, Apr. BEMAN, WOOSTER WOODRUFF, M.A., LL.D.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *813 East Kingsley Street.*
- 1901, Oct. BENEDICT, HARRY YANDELL, M.A., Ph.D. (Harvard); Professor of Applied Mathematics and Director of the Department of Extension, University of Texas, Austin, Texas.
- 1910, Feb. BERNSTEIN, BENJAMIN A., B.A.; Instructor in Mathematics, University of California, Berkeley, Cal.
- 1897, Feb. \*BERRY, ARTHUR, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; F.R.A.S.; Fellow and Assistant Tutor in Mathematics, King's College, Cambridge, England.
- 1910, Apr. BERRY, WILLIAM JOHNSTON, M.A., M.Sc., C.E.; Associate of the American Institute of Electrical Engineers; Assistant Professor of Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y. *1937 Eighty-Third Street.*
- 1906, Feb. BETZ, WILLIAM, M.A.; Head of the Department of Mathematics and Assistant Principal, East High School, Rochester, N. Y. *160 Grand Avenue.*
- 1902, Apr. BIKLÉ, CHARLES EARLE, M.A.; Head of the Department of Mathematics, Central High School, Syracuse, N. Y.
- 1908, Feb. BILL, EARL GORDON, M.A., Ph.D. (Yale); Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *Schlossstrasse 17, Bonn, Germany.*
- 1906, Feb. BIRKHOFF, GEORGE DAVID, B.A., Ph.D. (Chicago); Preceptor in Mathematics, Princeton University, Princeton, N. J.

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| 1900, | Dec. | BLICHFELDT, HANS FREDERIK, M.A., Ph.D. (Leipzig); Associate Professor of Mathematics, Stanford University, Cal.   |
| 1900, | Dec. | *BLISS, GILBERT AMES, B.Sc., M.Sc., Ph.D. (Chicago); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Editor of the <i>Transactions of the American Mathematical Society</i> ; Associate Professor of Mathematics, University of Chicago, Chicago, Ill.  |
| 1892, | Apr. | *BÔCHER, MAXIME, B.A., Ph.D. (Göttingen); EX-PRESIDENT; Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Editor of the <i>Transactions of the American Mathematical Society</i> ; Professor of Mathematics, Harvard University, Cambridge, Mass. 48 Buckingham Street.  |
| 1899, | Oct. | BOGARTE, MARTIN EUGENE, M.A.; Professor of Mathematics, Valparaiso University, Valparaiso, Ind. College Avenue and Locust Street.   |
| 1891, | Nov. | BOLZA, OSKAR, Ph.D. (Göttingen); Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Non-Resident Professor of Mathematics, University of Chicago, Chicago, Ill.; Honorary Professor of Mathematics, University of Freiburg, Freiburg, Germany. Reichsgrafenstrasse 10. |
| 1905, | Dec. | BÖRGER, ROBERT LACEY, M.A., Ph.D. (Chicago); Associate in Mathematics, University of Illinois, Urbana, Ill. 310 East Green Street, Champaign, Ill.  |
| 1898, | Dec. | *BOUTON, CHARLES LEONARD, M.Sc., M.A., Ph.D. (Leipzig); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. 5 Avon Street.  |
| 1900, | Dec. | BOWDEN, JOSEPH, B.A., Ph.D. (Yale); President of the Department of Mathematics of the Brooklyn Institute of Arts and Sciences; Professor of Mathematics, Adelphi College, Brooklyn, N. Y. 24 Clifton Place.   |
| 1907, | Oct. | BOYD, PAUL PRENTICE, M.A.; Professor of Mathematics, Hanover College, Hanover, Ind. 108 Cook Street, Ithaca, N. Y.  |
| 1903, | Feb. | BRACKETT, FRANK PARKHURST, M.A.; Professor of Mathematics and Director of the Observatory, Pomona College, Claremont, Cal.  |

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- 1907, Apr. BRADSHAW, JOHN WILLIAM, M.A., Ph.D. (Strassburg); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1234 Prospect Street.*
- 1903, Feb. BRECKENRIDGE, WILLIAM EDWIN, M.A.; Head of the Department of Mathematics, Stuyvesant High School, New York, N. Y. *345 East 15th Street.*
- 1906, Feb. BRENKE, WILLIAM CHARLES, M.Sc., Ph.D. (Harvard); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Professor of Mathematics, University of Nebraska, Lincoln, Neb. *1250 South 21st Street.*
- 1908, Oct. BREWSTER, JOHN ALFRED, B.A.; Tutor in Mathematics, College of the City of New York; Professor of Mathematics, College of Mount Saint Mary, Plainfield, N. J.; Professor of Economics, College of New Rochelle, New Rochelle, N. Y. *17 Lexington Avenue, New York, N. Y.*
- 1902, Sept. BROMWICH, THOMAS JOHN PANSON, Sc.D., F.R.S.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Fellow and Lecturer of St. John's College and University Lecturer in Mathematics, Cambridge University, Cambridge, England. *1 Selwyn Gardens.*
- 1901, Dec. BROOKE, WILLIAM ELLSWORTH, B.C.E., M.A.; Professor of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn.
- 1892, Feb. \*BROWN, ERNEST WILLIAM, M.A., Sc.D. (Cambridge); F.R.S.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; F.R.A.S.; Member of the American Philosophical Society; Editor of the *Bulletin of the American Mathematical Society*; Professor of Mathematics, Yale University, New Haven, Conn. *116 Everit Street.*
- 1900, Oct. BROWN, GEORGE LINCOLN, M.Sc., Ph.D. (Chicago); Professor of Mathematics and Dean of the Faculty, South Dakota State College, Brookings, S. D.
- 1902, Sept. \*BROWN, J. STANFORD, B.Ph., M.A.; Vice-President and Treasurer of the New York Realty Owners Incorporated. *10 Belmont Avenue, Yonkers, N. Y.*
- 1908, Apr. BUCHANAN, HERBERT EARLE, M.A., Ph.D. (Chicago); Instructor in Mathematics, University of Wisconsin, Madison, Wis. *1610 Madison Street.*



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1907, Sept.	BÜCK, THOMAS, B.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of Illinois, Urbana, Ill. <i>609 South Busey Avenue.</i>
1899, Aug.	*BULLARD, WARREN GARDNER, B.A., Ph.D. (Clark); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Syracuse University, Syracuse, N. Y. <i>613 South Crouse Avenue.</i>
1891, June	BULLIS, ABRAM ROGERS, B.Sc., B.C.E. Macedon, Wayne County, N. Y.
1909, Oct.	BURGESS, HORACE THOMAS, M.A., Ph.D. (Yale); Instructor in Mathematics, University of Wisconsin, Madison, Wis.
1903, Feb.	BURRELL, ELLEN LOUISA, B.A.; Professor of Pure Mathematics and Head of the Department, Wellesley College, Wellesley, Mass.
1904, Oct.	BUSSEY, WILLIAM HENRY, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn.
1908, Oct.	BUTTS, WILLIAM HENRY, M.A., Ph.D. (Zurich); Junior Professor of Mathematics and Assistant Dean of the Department of Engineering, University of Michigan, Ann Arbor, Mich. <i>919 Oakland Avenue.</i>
1891, Apr.	BYERLY, WILLIAM ELWOOD, M.A., Ph.D. (Harvard); Editor of the <i>Annals of Mathematics</i> ; Perkins Professor of Mathematics, Harvard University, Cambridge, Mass. <i>39 Hammond Street.</i>
1891, June	CAIN, WILLIAM, C.E., M.A.; Member of the American Society of Civil Engineers; Professor of Mathematics, University of North Carolina, Chapel Hill, N. C.
1905, Feb.	CAIRNS, WILLIAM DEWEESE, M.A., Ph.D. (Göttingen); Associate Professor of Mathematics, Oberlin College, Oberlin, Ohio. <i>400 East College Street.</i>
1899, Apr.	CAJORI, FLORIAN, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics and Dean of the Engineering School, Colorado College, Colorado Springs, Colo. <i>1119 Wood Avenue.</i>
1907, Dec.	CAMP, BURTON HOWARD, M.A.; Associate Professor of Mathematics, Wesleyan University, Middletown, Conn. <i>11 Brainerd Avenue.</i>

Date of  
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1900,	Dec.	CAMPBELL, DONALD FRANCIS, Ph.D. (Harvard); Professor of Mathematics, Armour Institute of Technology, Chicago, Ill.
1910,	Oct.	CAMPBELL, GEORGE ASHLEY, B.Sc., M.A., Ph.D. (Harvard); Research Engineer, American Telephone and Telegraph Company, New York, N. Y. <i>15 Dey Street.</i>
1909,	Feb.	CAMPBELL, WILLIAM TAYLOR, M.A.; Head of the Department of Mathematics, Boston Latin School. <i>8 Langdon Street, Cambridge, Mass.</i>
1897,	Oct.	CAPRON, PAUL, M.A.; Instructor in Mathematics, U. S. Naval Academy, Annapolis, Md.
1908,	Apr.	CAREY, EUGENE FRANCIS ALOYSIUS, B.Sc.; Instructor in Mathematics, University of Montana, Missoula, Mont.
1906,	Apr.	CARMICHAEL, ROBERT DANIEL, B.A.; Member of the Deutsche Mathematiker-Vereinigung; Fellow in Mathematics, Princeton University, Princeton, N. J.
1906,	Oct.	CARPENTER, ALLEN FULLER, M.A.; Instructor in Mathematics, University of Washington, Seattle, Wash. <i>4024 Tenth Avenue, N. E.</i>
1907,	Dec.	CARRUTH, WILLIAM MASSEY, B.A.; Assistant Professor of Mathematics, Hamilton College, Clinton, N. Y. <i>P. O. Box 25.</i>
1906,	Feb.	CARTER, BENJAMIN EDWARD, M.A.; Instructor in Mathematics, Colby College, Waterville, Me.
1905,	Dec.	CARVER, WALTER BUCKINGHAM, Ph.B., Ph.D. (Johns Hopkins); Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. <i>101 Fairmount Avenue.</i>
1896,	Apr.	CHACE, ARNOLD BUFFUM, M.A., D.Sc. (Brown). Providence, R. I. <i>324 Angell Street.</i>
1908,	Sept.	CHAMBERS, GEORGE GAILEY, B.A., Ph.D. (Pennsylvania); Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. <i>55 East Essex Avenue, Lansdowne, Pa.</i>
1908,	Apr.	CHAPMAN, FRANK E., M.A.; Professor of Mathematics, Southern University, Greensboro, Ala.
1895,	Nov.	CHESSIN, ALEXANDER S., M.A., C.E., Ph.D. Care of H. A. Tabb, <i>231 West 96th Street, New York, N. Y.</i>
1895,	Nov.	CHITTENDEN, J. BRACE, B.Sc., M.A., Ph.D. (Königsberg); Professor of Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y.

Date of  
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1900,	Dec.	CLARKE, JOHN EASTMAN, B.A., Ph.D. (Boston); Acting Professor of Philosophy, Boston University, Boston, Mass. 18 Centre Street, Cambridge, Mass.
1891,	Apr.	CLARK, JOHN EMORY, M.A.; Emeritus Professor of Mathematics, Yale University, New Haven, Conn. 34 South Park Terrace, Longmeadow, Mass.
1907,	Dec.	CLEMENTS, GUY ROGER, M.A.; Professor of Mathematics, University of North Carolina, Chapel Hill, N. C.
1906,	Feb.	COAR, HENRY LIVINGSTON, M.A., Ph.D. (Illinois); Professor of Mathematics and Lee Lecturer on Astronomy, Marietta College, Marietta, Ohio. Muskingum Terrace.
1907,	Apr.	COBB, HERBERT EDGAR, M.A.; Member of the Circolo Matematico di Palermo; Departmental Editor of <i>School Science and Mathematics</i> ; Professor and Head of the Department of Mathematics, Lewis Institute, Chicago, Ill.
1902,	Dec.	COBLE, ARTHUR B., M.A., Ph.D. (Johns Hopkins); Associate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1905,	Dec.	CODDINGTON, EMILY, M.A., Ph.D. (Columbia). 24 West 58th Street, New York, N. Y.
1893,	Feb.	COHEN, ABRAHAM, B.A., Ph.D. (Johns Hopkins); Co-editor of the <i>American Journal of Mathematics</i> ; Associate in Mathematics, Johns Hopkins University, Baltimore, Md.
1891,	Apr.	*COLE, FRANK NELSON, B.A., Ph.D. (Harvard); Editor of the <i>Bulletin of the American Mathematical Society</i> ; Professor of Mathematics, Columbia University, New York, N. Y.
1899,	Dec.	COLLINS, JOSEPH VICTOR, B.Ph., Ph.D.; Teacher of Mathematics, State Normal School, Stevens Point, Wis. 217 Division Street.
1906,	Sept.	COLPITTS, ELMER CLIFFORD, B.A., Ph.D. (Cornell); Member of the Circolo Matematico di Palermo; Professor of Mathematics, College of Emporia, Emporia, Kan. 1229 West Street.
1907,	Dec.	COLPITTS, JULIA TRUEMAN, M.A.; Assistant Professor of Mathematics, Iowa State College, Ames, Ia.
1903,	Aug.	COMSTOCK, CLARENCE ELMER, M.A.; Professor of Mathematics and Head of the Department, Bradley Polytechnic Institute, Peoria, Ill.

Date of Admission.		
1898,	Feb.	COMSTOCK, ELTING HOUGHTALING, M.Se.; Professor of Mechanics and Mathematics, School of Mines, University of Minnesota, Minneapolis, Minn.
1892,	Oct.	CONANT, LEVI LEONARD, M.A., Ph.D.; Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass.
1909,	Dec.	CONNER, JAMES RYALS, B.A., Ph.D. (Johns Hopkins); Johns Hopkins University, Baltimore, Md.
1906,	Sept.	CONSTANTIUS, BROTHER, M.A., Ph.D. (St. Louis), LL.D.; Member of the Circolo Matematico di Palermo; Professor of Philosophy, Christian Brothers College, St. Louis, Mo.
1904,	Sept.	CONVERSE, HENRY A., B.A., Ph.D. (Johns Hopkins); Head of the Department of Mathematics, Baltimore Polytechnic Institute, Baltimore, Md. <i>1204 Mount Royal Avenue.</i>
1908,	Sept.	CONWELL, GEORGE MACFEELY, M.A., Ph.D. (Princeton); Instructor in Mathematics, Yale University, New Haven, Conn. <i>681 Yale Station.</i>
1900,	June	*COOLIDGE, JULIAN LOWELL, B.A., B.Sc., Ph.D. (Bonn); Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. <i>7 Fayerweather Street.</i>
1907,	Apr.	COREY, SAMUEL ARTHUR, Member of the Circolo Matematico di Palermo. Treasurer of the Wapello Coal Company, Hiteman, Ia.
1902,	Dec.	CORNISH, WILLIAM AARON, B.A.; Instructor in Mathematics, State Normal School, Cortland, N. Y. <i>2 Stewart Place.</i>
1903,	Feb.	COWLEY, ELIZABETH BUCHANAN, M.A., Ph.D. (Columbia); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Collaborator of the <i>Revue Semestrielle des Publications Mathématiques</i> ; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1908,	Oct.	CRAIG, CLYDE FIRMAN, B.A., Ph.D. (Cornell); Instructor in Mathematics, Cornell University, Ithaca, N. Y. <i>310 East Mill Street.</i>
1900,	Dec.	CRATHORNE, ARTHUR R., B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate in Mathematics, University of Illinois, Champaign, Ill. <i>1113 South Fourth Street.</i>
1891,	Apr.	CRAWLEY, EDWIN SCHOFIELD, B.Sc., Ph.D. (Pennsylvania); Thomas A. Scott Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.



Date of Admission.		
1903,	Oct.	CUMMINGS, LOUISE DUFFIELD, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1905,	Oct.	*CUNNINGHAM, ALLAN JOSEPH CHAMPNEYS, Lieutenant Colonel R. E., retired; Member of the London Mathematical Society; Fellow of King's College, London. <i>20 Essex Villas, Kensington, London, W., England.</i>
1891,	Dec.	CUNNINGHAM, SUSAN J., Emeritus Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa. <i>3308 Arch Street, Philadelphia, Pa.</i>
1900,	Dec.	CURJEL, HARALD WORTHINGTON, M.A.; F.I.A.; Member of the London Mathematical Society; La Mexicana Compañía de Seguros sobre la Vida, Mexico, D. F., Mexico. <i>Apartado 651.</i>
1908,	Feb.	CURRIER, CLINTON HARVEY, M.A.; Instructor in Mathematics, Brown University, Providence, R. I. <i>Hainholzweg 20, Göttingen, Germany.</i>
1904,	Oct.	CURTIS, ARTHUR MILLS, B.Sc.; Instructor in Mathematics, State Normal and Training School, Oneonta, N. Y.
1902,	Feb.	CURTISS, DAVID RAYMOND, M.A., Ph.D. (Harvard); Member of the Société Mathématique de France; Professor of Mathematics, Northwestern University, Evanston, Ill. <i>720 Milburn Street.</i>
1906,	Oct.	DADOURIAN, HAROUTUNE MUGURDICH, M.A., Ph.D. (Yale); Instructor in Physics, Sheffield Scientific School, Yale University, New Haven, Conn. <i>609 Yale Station.</i>
1909,	Oct.	DALAKER, HANS H., B.A.; Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. <i>523 Walnut Street, S. E.</i>
1900,	Oct.	DAVIS, CHARLES HENRY. South Yarmouth, Mass.
1910,	Oct.	DAVIS, ELIZABETH BROWN, B.Sc.; Nautical Almanac Office, Washington, D. C.
1891,	Apr.	DAVIS, ELLERY WILLIAMS, B.Sc., Ph.D. (Johns Hopkins); Member of the Mathematical Association; Head Professor of Mathematics and Dean of the College of Arts and Sciences, University of Nebraska, Lincoln, Neb.
1903,	Aug.	*DAVIS, HARVEY NATHANIEL, Ph.D.; Assistant Professor of Physics, Harvard University, Cambridge, Mass. <i>507 Craigie Hall.</i>

Date of Admission.		
1891,	Apr.	DAVIS, NATHANIEL FRENCH, M.A., LL.D.; Professor of Pure Mathematics, Brown University, Providence, R. I. <i>159 Brown Street.</i>
1905,	Feb.	DAVISSON, SCHUYLER COLFAX, M.A., Sc.D.; Professor of Mathematics, Indiana University, Bloomington, Ind. <i>515 East Third Street.</i>
1904,	Oct.	DEAN, GEORGE REINALD, B.Sc., C.E.; Professor of Mathematics, School of Mines, University of Missouri, Rolla, Mo.
1905,	Oct.	DECHEED, MARY ELIZABETH, M.A.; Instructor in Mathematics, University of Texas, Austin, Tex. <i>2313 Nueces Street.</i>
1908,	Sept.	DECKER, FLOYD FISKE, Ph.M., Ph.D. (Syracuse); Assistant Professor of Mathematics, Syracuse University, Syracuse, N. Y. <i>854 Sumner Avenue.</i>
1903,	Feb.	DE COU, EDGAR EZEKIEL, M.Sc.; Professor and Head of the Department of Mathematics, University of Oregon, Eugene, Ore. <i>719 Mill Street.</i>
1909,	Sept.	DEREDICK, LOUIS SERLE, M.A., Ph.D. (Harvard); Instructor in Mathematics, Princeton University, Princeton, N. J. <i>23 William Street.</i>
1900,	Dec.	DEFOE, LUTHER MARION, Member of the London Mathematical Society; Professor of Mechanics, University of Missouri, Columbia, Mo.
1903,	Dec.	DEIMEL, RICHARD FRANCIS, M.A.; Member of the Circolo Matematico di Palermo; Assistant Professor of Mechanics, Stevens Institute, Hoboken, N. J. <i>146 Berkeley Place, Brooklyn, N. Y.</i>
1891,	May	DELONG, IRA MITCHELL, M.A.; Professor of Mathematics, University of Colorado, Boulder, Colo. <i>1341 Broadway.</i>
1895,	Jan.	DELURY, ALFRED TENNYSON, M.A.; Professor of Mathematics, University of Toronto, Toronto, Canada.
1892,	Jan.	*DENNETT, WILLIAM SAWYER, B.A., M.D. <i>8 East 49th Street, New York, N. Y.</i>
1909,	Apr.	DENTON, WILLIAM WELLS, M.A.; Assistant in Mathematics, University of Illinois, Urbana, Ill. <i>617 South Wright Street, Champaign, Ill.</i>
1896,	Nov.	DICKSON, LEONARD EUGENE, B.Sc., M.A., Ph.D. (Chicago); Member of the London Mathematical Society; Editor of the <i>Transactions of the American Mathe-</i>

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- mathematical Society*; Professor of Mathematics, University of Chicago, Chicago, Ill.
- 1904, Apr. DIMICK, CHESTER EDWARD, M.A.; Instructor of Cadets, U. S. Revenue Cutter Service, Fort Trumbull, New London, Conn.
- 1904, Sept. DODD, EDWARD LEWIS, M.A., Ph.D. (Yale); Instructor in Mathematics, University of Texas, Austin, Texas. *Box 115, University Station.*
- 1905, Dec. DOHMEN, FRANZ JOSEPH, B.Lit., Ph.D. (Greifswald); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Instructor in Mathematics, Harvard University, Cambridge, Mass. *30½ Mellen Street.*
- 1897, Apr. DOWLING, LINNÆUS WAYLAND, Ph.D. (Clark); Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *2 Roby Road.*
- 1901, Feb. DOWNEY, JOHN F., C.E., M.Sc., M.A.; Professor of Mathematics and Dean of the College of Science, Literature and the Arts, University of Minnesota, Minneapolis, Minn.
- 1907, Sept. DRESDEN, ARNOLD, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of Wisconsin, Madison, Wis. *1120 West Johnson Street.*
- 1906, Sept. DROKE, GEORGE WESLEY, M.A.; Professor of Mathematics and Astronomy, University of Arkansas, Fayetteville, Ark. *103 Hill Street.*
- 1902, Oct. DUNKEL, OTTO, M.E., M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Missouri, Columbia, Mo. *713 Missouri Avenue.*
- 1891, Apr. DURELL, FLETCHER, B.A., Ph.D.; Master in Mathematics, Lawrenceville School, Lawrenceville, N. J.
- 1891, Apr. DUFEE, WILLIAM PITT, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the Faculty, Hobart College, Geneva, N. Y. *639 Main Street.*
- 1904, Feb. DUVAL, EDMUND PENDLETON RANDOLPH, B.Sc., M.A.; Associate Professor of Mathematics, University of Oklahoma, Norman, Okla. *P. O. Box 494.*
- 1905, Sept. ECHOLS, CHARLES PATTON, Graduate of the U. S. Military Academy; Lieutenant-Colonel, U. S. A.; Professor of Mathematics, U. S. Military Academy, West Point, N. Y.

Date of Admission.		
1891,	Apr.	ECHOLS, WILLIAM HOLDING, B.Sc.; Professor of Mathematics, University of Virginia, Charlottesville, Va.
1891,	Apr.	EDDY, HENRY TURNER, C.E., M.A., Ph.D., LL.D.; Head Professor of Mathematics and Mechanics, College of Engineering, and Dean of the Graduate School, University of Minnesota, Minneapolis, Minn. <i>916 Sixth Street, S. E.</i>
1896,	Dec.	EDMONDSON, THOMAS WILLIAM, B.A., Ph.D. (Clark); Professor of Mathematics, New York University, New York, N. Y. <i>University Heights.</i>
1902,	Sept.	EDWARDS, GEORGE CUNNINGHAM, B.Ph.; Professor of Mathematics, University of California, Berkeley, Cal.
1897,	Feb.	EIESLAND, JOHN, B.Ph., Ph.D. (Johns Hopkins); Professor of Mathematics, University of West Virginia, Morgantown, W. Va.
1900,	Dec.	*EISENHART, LUTHER PFAHLER, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Princeton University, Princeton, N. J. <i>22 Alexander Street.</i>
1898,	Feb.	*ELLIOTT, EDWIN BAILEY, M.A.; F.R.S.; Member of the London Mathematical Society; F.R.A.S.; Waynflete Professor of Pure Mathematics and Fellow of Magdalen College, Oxford, England. <i>4 Bardwell Road.</i>
1910,	Oct.	EMMONS, CLYDE W., M.A.; Professor of Mathematics, Simpson College, Indianola, Ia.
1898,	Apr.	ENGBERG, CARL CHRISTIAN, B.Sc., M.A., Ph.D. (Nebraska); Professor of Applied Mathematics, University of Nebraska, Lincoln, Neb.
1892,	Mar.	ENGLER, EDMUND ARTHUR, M.A., Ph.D., LL.D.; President of the Worcester Polytechnic Institute, Worcester, Mass. <i>11 Boynton Street.</i>
1903,	Oct.	ENGLISH, HARRY, B.A., LL.M.; Director of Mathematics, Washington High Schools, Washington, D. C. <i>2907 P Street, N. W.</i>
1904,	Sept.	EPSTEIN, SAUL, B.Sc., Ph.D. (Zurich); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Colorado, Boulder, Colo. <i>1122 Pleasant Street.</i>
1898,	Oct.	*ESCOTT, EDWARD BRIND, M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. <i>1825 Hill Street.</i>
1901,	Dec.	ESTY, THOMAS CUSHING, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.

Date of  
Admission.

1891,	May	ESTY, WILLIAM COLE, LL.D.; Emeritus Professor of Mathematics and Astronomy, Amherst College, Amherst, Mass.
1910,	Feb.	EVANS, GEORGE WILLIAM, B.A.; Headmaster of the Charlestown High School, Boston, Mass. <i>17 Everett Avenue, Dorchester, Mass.</i>
1909,	Oct.	EVANS, GRIFFITH CONRAD, M.A.; Fellow in Mathematics, Harvard University, Cambridge, Mass. <i>Presso Sebastie Reali, 20 Piazza di Spagna, Rome, Italy.</i>
1905,	Sept.	EVANS, HENRY BROWN, M.E., Ph.D. (Pennsylvania); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. <i>College Hall.</i>
1908,	Sept.	EWING, WILLIAM FERDINAND, B.A. <i>1760 West Adams Street, Los Angeles, Cal.</i>
1899,	Feb.	FAUGHT, JOHN BROOKIE, M.A., Ph.D.; Professor of Mathematics, Western State Normal School, Kalamazoo, Mich. <i>227 Douglas Avenue.</i>
1910,	Oct.	FEEMSTER, HOWARD CALVIN, B.A.; Professor of Mathematics, York College, York, Neb.
1901,	Feb.	*FERRY, FREDERICK CARLOS, M.A., Ph.D. (Clark), Sc.D. (Colgate); Professor of Mathematics and Dean, Williams College, Williamstown, Mass.
1907,	Apr.	FIELD, FLOYD, M.A.; Professor of Mathematics and Head of the Department, Georgia School of Technology, Atlanta, Ga. <i>91 Bryan Street.</i>
1900,	June	FIELD, PETER, M.Sc., Ph.D. (Cornell); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. <i>1054 Ferdon Road.</i>
1891,	May	*FIELDS, JOHN CHARLES, Ph.D. (Johns Hopkins); Fellow of the Royal Society of Canada; Member of the Société Mathématique de France; Associate Professor of Mathematics, University of Toronto, Toronto, Canada.
1901,	Oct.	FINDLAY, WILLIAM, M.A., Ph.D. (Chicago); Professor of Mathematics, McMaster University, Toronto, Canada.
1891,	May	FINE, HENRY BURCHARD, M.A., Ph.D. (Leipzig), LL.D.; Professor of Mathematics and Dean, Princeton University, Princeton, N. J.
1891,	June	FINKEL, BENJAMIN FRANKLIN, Ph.D.; Member of the London Mathematical Society; Member of the Circolo



Date of  
Admission.

- Matematico di Palermo; Editor of the *American Mathematical Monthly*; Professor of Mathematics and Physics, Drury College, Springfield, Mo. 1227 Clay Street.
- 1891, Oct. FISHER, GEORGE EGBERT, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics and Dean of the College Faculty, University of Pennsylvania, Philadelphia, Pa.
- 1895, Jan. FISHER, IRVING, B.A., Ph.D. (Yale); Professor of Political Economy, Yale University, New Haven, Conn. 460 Prospect Street.
- 1888, Nov. \*FISKE, THOMAS SCOTT, M.A., Ph.D. (Columbia); Ex-PRESIDENT; Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Columbia University, New York, N. Y.
- 1897, Feb. FITCH, ANNIE LOUISE MACKINNON (MRS. EDWARD), M.Sc., Ph.D. Clinton, N. Y.
- 1901, Oct. FITE, WILLIAM BENJAMIN, Ph.D. (Cornell); Professor of Mathematics, Columbia University, New York, N. Y.
- 1910, Feb. FLANAGAN, CHARLES EDWARD. Actuary of the Conservative Life Insurance Company, Wheeling, W. Va.
- 1904, Oct. FLEET, ROBERT RYLAND, M.A., Ph.D. (Heidelberg); Professor of Mathematics, William Jewell College, Liberty, Mo. 44 Miller Avenue.
- 1894, Oct. FLOWERS, ROBERT LEE, Graduate of the U. S. Naval Academy; Professor of Mathematics, Trinity College, Durham, N. C.
- 1907, Feb. FOCKE, THEODORE M., B.Sc., Ph.D. (Göttingen); Kerr Professor of Mathematics, Case School of Applied Science, Cleveland, Ohio.
- 1900, Apr. FORD, ROBERT DALE, M.Sc.; Professor of Mathematics, St. Lawrence University, Canton, N. Y.
- 1899, Aug. \*FORD, WALTER BURTON, M.A., Ph.D. (Harvard); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Junior Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1345 Wilmot Street.
- 1899, Dec. FORSYTH, ANDREW RUSSELL, Sc.D. (Cambridge, Dublin, Victoria, Oxford, Liverpool), LL.D. (Glasgow, Aberdeen); Math.D. (Christiania); F.R.S.; Hon. F.R.S.E.;

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- Foreign Member of the National Academy of Sciences; Corresponding Associate of the Reale Istituto Lombardo and of the Reale Istituto Veneto; Corresponding Member of the Mathematical Society of Kharkow; Member of the London Mathematical Society; Honorary Member of the Manchester Literary and Philosophical Society and of the Calcutta Mathematical Society; Member of the Cambridge Philosophical Society; F.R.A.S. Cambridge, England.
- 1893, Dec. \*FRANKLAND, FREDERICK WILLIAM; Fellow of the Institute of Actuaries; Member of the Actuarial Society of America; Government Examiner in Statistical Method and in Actuarial and Pure Mathematics, Foxton, New Zealand.
- 1892, Dec. FRANKLIN, FABIAN, B.Ph., Ph.D. (Johns Hopkins). LL.D.; Associate Fellow of the American Academy of Arts and Sciences. *The Evening Post*, New York, N. Y.
- 1903, Feb. FRAZER, FRANK DEAN, B.Sc., M.A. *1206 Haight Avenue*, Portland, Ore.
- 1905, Feb. FRENCH, JOHN SHAW, B.A., Ph.D. (Clark); Member of the Circolo Matematico di Palermo; Principal of the Morris Heights School, Providence, R. I.
- 1895, Nov. FRIZELL, ARTHUR BOWES, M.A., Ph.D. (Kansas); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Instructor in Mathematics, University of Kansas, Lawrence, Kans. *940 Indiana Street*.
- 1909, Apr. GABA, MEYER, M.Sc.; Instructor in Mathematics, School of Mines and Metallurgy, University of Missouri, Rolla, Mo.
- 1892, Oct. GABLE, GEORGE DANIEL, M.A., Ph.D.; Johnson Professor of Mathematics and Astronomy, University of Wooster, Wooster, Ohio.
- 1908, Dec. GAHR, PAUL FREDERICK, M.A.; Professor of Mathematics, Robert College, Constantinople, Turkey.
- 1899, Oct. GALE, ARTHUR SULLIVAN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Fayerweather Professor of Mathematics, University of Rochester, Rochester, N. Y. *35 Vick Park B*.
- 1909, Apr. GARRETT, WILLARD HAYES, B.Sc.; Professor of Mathematics and Astronomy, Baker University, Baldwin, Kan.

Date of  
Admission.

- 1909, Feb. GARRISON, WILBERT A., M.A.; Assistant Professor of Mathematics, Engineering School, Union University, Schenectady, N. Y. *99 Van Vanken Avenue.*
- 1904, Dec. GAVETT, GEORGE IRVING, B.Sc. (C.E.); Instructor in Mathematics, University of Washington, Seattle, Washington. *5252 Sixteenth Avenue, N. E.*
- 1903, Dec. GECKELER, OTTO THEODORE, B.A.; Professor of Mathematics, Whitman College, Walla Walla, Wash.
- 1894, Feb. GENTRY, RUTH, Ph.B., Ph.D. (Bryn Mawr); Stilesville, Ind.
- 1897, Dec. GERMANN, GEORGE B., B.A., Ph.D. (Columbia); Principal of Public School No. 130, *Ocean Parkway and Fort Hamilton Avenue*, Brooklyn, N. Y.
- 1901, Feb. \*GERRANS, HENRY TRESAWNA, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Fellow and Lecturer of Worcester College, Oxford, England.
- 1903, Oct. GIBSON, GEORGE ALEXANDER, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Glasgow, Glasgow, Scotland. *10 The University.*
- 1907, Feb. GILLESPIE, DAVID CLINTON, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *120 Oak Avenue.*
- 1904, Apr. GILLESPIE, WILLIAM, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *10 Nassau Street.*
- 1910, Feb. GITHENS, CURRAN ELLSWORTH, M.A.; Supervising Principal of Schools, Wheeling, W. Va. *25 Kentucky Avenue.*
- 1892, June GLAISHER, JAMES WHITBREAD LEE, M.A., Sc.D.; F.R.S.; F.R.A.S.; Editor of the *Messenger of Mathematics* and of the *Quarterly Journal of Pure and Applied Mathematics*; Fellow of Trinity College, Cambridge, England.
- 1891, May GLASHAN, JOHN STUART CADENHEAD, LL.D.; Fellow of the Royal Society of Canada *Ottawa, Canada.*
- 1906, Sept. GLAZIER, HARRIET EUDORA, M.A.; Professor of Mathematics, Western College for Women, Oxford, Ohio.

Date of  
Admission.

- 1905, Dec. GLENN, OLIVER EDMUNDS, M.A., Ph.D. (Pennsylvania); Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall*.
- 1896, Nov. GLOVER, JAMES WATERMAN, M.A., Ph.D. (Harvard); Fellow of the American Institute of Actuaries; Member of the Deutscher Verein für Versicherungswissenschaft; Member of the American Statistical Association; Junior Professor of Mathematics and Insurance, University of Michigan, Ann Arbor, Mich. *620 Oxford Road*.
- 1904, Feb. GOODENOUGH, GEORGE ALFRED, M.E.; Associate Professor of Mechanical Engineering, University of Illinois, Urbana, Ill. *607 West Elm Street*.
- 1897, Oct. GORE, JOHN KINSEY, M.A.; Actuary of the Prudential Insurance Company, Newark, N. J.
- 1909, Oct. GOTTSCHALL, LOUIS, B.Sc., M.A. *462 Broadway*, New York, N. Y.
- 1902, Feb. GOULD, ALICE BACHE, B.A. *535 Beacon Street*, Boston, Mass.
- 1903, Oct. GOULD, MARY FRANCIS, B.A. Teacher of Mathematics, Roxbury High School, Boston, Mass.
- 1904, Dec. GRABER, MYRON EARLE, M.A.; Member of the Circolo Matematico di Palermo; Professor of Physics, Heidelberg University, Tiffin, O. *122 Circular Street*.
- 1909, Apr. GRAHAM, SARAH EFFIE, B. Sc.; Head of the Department of Mathematics, Topeka High School, Topeka, Kan. *829 Lane Street*.
- 1903, Aug. GRAHAM, WILLIAM JOSEPH, B.A.; Member of the Circolo Matematico di Palermo; Fellow of the Actuarial Society of America; Consulting Actuary of the American School of Insurance; Vice-President and Actuary of the Northwestern National Life Insurance Company, Minneapolis, Minn.
- 1904, Oct. GRANT, ELMER DANIEL, M.A.; Assistant Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich.
- 1897, May GRANVILLE, WILLIAM ANTHONY, B.Ph., Ph.D. (Yale); President of Pennsylvania College, Gettysburg, Pa.
- 1906, Oct. GRAVATT, THOMAS E., B.Sc.; Instructor in Mathematics, Pennsylvania State College, State College, Pa.
- 1897, Oct. \*GREENHILL, SIR GEORGE, M.A.; Member of the Deutsche Mathematiker-Vereinigung; Late Professor of Mathematics, Artillery College, Woolwich, England. *1 Staple Inn, London, W. C.*

Date of  
Admission.

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| 1901, | Oct.  | GREENWOOD, GEORGE WILLIAM, M.A. Member of the Circolo Matematico di Palermo; Member of the Mathematical Association; Auditor of the United Fire Brick Company, Uniontown, Pa. <i>Dunbar, Pa.</i>   |
| 1906, | Apr.  | GRIFFIN, FRANK LOXLEY, B.Sc., M.Sc., Ph.D. (Chicago); Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, Williams College, Williamstown, Mass.   |
| 1893, | Dec.  | GRIFFITHS, IDA, B.A. <i>95 Garden Street, Poughkeepsie, N. Y.</i>  |
| 1910, | Sept. | GRIMES, NATHAN CESNA, M.A.; Professor of Mathematics, University of Arizona, Tucson, Ariz.   |
| 1899, | Oct.  | *GROAT, BENJAMIN FELAND, B.Sc., LL.B.; Professor of Mechanics and Mathematics, School of Mines, University of Minnesota, Minneapolis, Minn.  |
| 1907, | Feb.  | GROVE, CHARLES CLAYTON, M.A., Ph.D. (Johns Hopkins); Assistant Professor of Mathematics, Columbia University, New York, N. Y.  |
| 1905, | Sept. | *GUCCIA, GIOVANNI BATTISTA, NOB. DEI MARCHESI DI GANZARIA, Math.D. (Rome); Member of the Royal Academy of Sciences, Letters and Fine Arts of Palermo; Honorary Member of the Academy Givenia of Catania and of the Royal Academy of Sciences, Letters, and Arts of Modena; Member of the Kaiserliche Leopoldinisch-Carolinische Deutsche Akademie der Naturforscher; Corresponding Member of the Royal Academy of Sciences of Turin and of the Royal Society of Liège; Founder of the Circolo Matematico di Palermo; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Corresponding Member of the Société Philomathique de Paris; Member of the International Commission of the <i>Répertoire Bibliographique des Sciences Mathématiques</i> ; Founder and Director of the <i>Rendiconti del Circolo Matematico di Palermo</i> ; Professor of Higher Geometry, University of Palermo, Palermo, Italy. <i>Via Ruggiero Settimo, 30.</i> |
| 1894, | June  | *GUMMERE, HENRY VOLKMAR, B.Sc., M.A.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Drexel Institute, Philadelphia, Pa.   |
| 1909, | Apr.  | GUNDELFINGER, GEORGE FREDERICK, B.Ph., Ph.D. (Yale); Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. <i>148 Grove Street.</i>  |



Date of  
Admission.

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| 1902, Feb.  | GUNDERSEN, CARL, M.A., Ph.D. (Columbia); Professor of Mathematics, Oklahoma Agricultural and Mechanical College, Stillwater, Okla.   |
| 1906, Sept. | GUNTHER, CHARLES OTTO, M.E.; Associate Member of the American Society of Civil Engineers and of the American Society of Mechanical Engineers; Member of the Circolo Matematico di Palermo; Professor of Mathematics and Head of the Department, Stevens Institute of Technology, Hoboken, N. J.  |
| 1902, Dec.  | HALL, ARTHUR GRAHAM, B.Sc., Ph.D. (Leipzig); Professor of Mathematics, University of Michigan, Ann Arbor, Mich.  |
| 1894, Oct.  | HALLETT, GEORGE HERVEY, M.A., Ph.D.; Member of the London Mathematical Society; Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. <i>College Hall.</i>   |
| 1891, May   | HALSTED, GEORGE BRUCE, M.A., Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the Mathematical Association; F.R.A.S.; Professor of Mathematics, State Normal School of Colorado, Greeley, Colo. <i>921 Eighth Avenue.</i> |
| 1901, Oct.  | *HANAWALT, FRANCIS WAYLAND, M.A.; Professor of Mathematics and Astronomy, University of Puget Sound, Tacoma, Wash. <i>412 South I Street.</i>  |
| 1902, Dec.  | HANCOCK, EDWARD LEE, M.Sc.; Professor of Applied Mechanics, Worcester Polytechnic Institute, Worcester, Mass.  |
| 1895, Apr.  | HANCOCK, HARRIS, B.A., Ph.D. (Berlin), D.Sc. (Paris); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. <i>2415 Auburn Avenue, Mount Auburn.</i>                                      |
| 1900, Dec.  | HANNA, ULYSSES S., M.A., Ph.D. (Pennsylvania); Member of Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Indiana University, Bloomington, Ind. <i>828 Atwater Avenue.</i>  |

Date of  
Admission.

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| 1894, | Feb. | *HARDCASTLE, FRANCES, Member of the London Mathematical Society. <i>19 Ellison Place, Newcastle-on-Tyne, England.</i>  |
| 1902, | Apr. | HARDY, JAMES GRAHAM, M.A., Ph.D. (Johns Hopkins); Associate Professor of Mathematics, Williams College, Williamstown, Mass.  |
| 1891, | May  | *HARKNESS, JAMES, M.A.; Member of the London Mathematical Society; Professor of Mathematics, McGill University, Montreal, Canada.  |
| 1909, | Apr. | HARSHBARGER, WILLIAM ASBURY, B.Sc.; Professor of Mathematics, Washburn College, Topeka, Kan. <i>1401 College Avenue.</i>   |
| 1891, | Apr. | HART, JAMES NORRIS, C.E., M.Sc.; Professor of Mathematics and Astronomy, University of Maine, Orono, Me.   |
| 1907, | Apr. | HARTWELL, GEORGE WILBER, M.A., Ph.D. (Columbia); Member of the Circolo Matematico di Palermo; Professor of Mathematics, Hamline University, St. Paul, Minn. <i>1549 West Minnehaha Street.</i>   |
| 1904, | Feb. | HARVEY, HENRY CLAY, M.Sc.; Head of the Department of Mathematics, State Normal School, Kirksville, Mo. <i>1315 East Normal Avenue.</i>   |
| 1907, | Oct. | HASEMAN, CHARLES, M.A., Ph.D. (Göttingen); Member of the Circolo Matematico di Palermo; Professor of Mathematics and Mechanics, University of Nevada, Reno, Nev.   |
| 1899, | Dec. | HASKELL, MELLEN WOODMAN, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of California, Berkeley, Cal. <i>P. O. Box 3.</i> |
| 1903, | Feb. | HASKINS, CHARLES NELSON, B.Sc., Ph.D. (Harvard); Assistant Professor of Mathematics, Dartmouth College, Hanover, N. H. <i>R. F. D. 1, Lebanon, N. H.</i>   |
| 1891, | May  | HATHAWAY, ARTHUR STAFFORD, B.Sc., Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. <i>2206 North Tenth Street.</i>  |
| 1898, | Aug. | HAWKES, HERBERT EDWIN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Columbia University, New York, N. Y.   |

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Admission.

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| 1906, | Oct.  | HAWKESWORTH, REV. ALAN SPENCER; Member of the Circolo Matematico di Palermo; Instructor in Higher Mathematics, University of Pittsburgh. Sheridanville, Pittsburgh, Pa.   |
| 1908, | Sept. | HAYNES, ARTHUR EDWIN, M.Sc., M.Ph., Sc.D. (Hillsdale); Professor of Engineering Mathematics, University of Minnesota, Minneapolis, Minn. 703 River Road East.   |
| 1905, | Dec.  | HAYNES, ELI STUART, M.A.; Instructor in Astronomy, University of Missouri, Columbia, Mo. Laws Observatory.  |
| 1910, | Sept. | H'DOUBLER, FRANCIS TODD, M.A., Ph.D. (Wisconsin); Assistant Professor of Mathematics, Miami University, Oxford, Ohio.   |
| 1901, | Aug.  | HEDRICK, EARLE RAYMOND, M.A., Ph.D. (Göttingen); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor and Head of the Department of Mathematics, University of Missouri, Columbia, Mo. 304 Hicks Avenue.   |
| 1910, | Sept. | HENDERSON, ROBERT, B.A.; Fellow of the Institute of Actuaries; Fellow of the Actuarial Society of America; Member of the Statistical Association; Assistant Actuary of the Equitable Life Assurance Society. 120 Broadway, New York, N. Y.  |
| 1900, | Dec.  | HEWES, LAURENCE ILSLEY, B.Sc., Ph.D. (Yale); Assistant Professor of Mathematics, Whitman College, Walla Walla, Wash. 46 Park Street.  |
| 1904, | Oct.  | HIGDON, JOHN E., B.A.; Assistant Actuary of The State Life Insurance Company, Indianapolis, Ind. State Life Building.   |
| 1906, | Oct.  | HIGLEY, HOMER RANSOM, M.Sc.; Assistant Professor of Mathematics, Stevens Institute, Hoboken, N. J.  |
| 1907, | Sept. | HILDEBRANDT, THEOPHIL HENRY, B.A., M.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. 1317 Washtenaw Avenue.   |
| 1892, | Dec.  | HILL, GEORGE WILLIAM, Ph.D., Sc.D., LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Corresponding Member of the Paris Academy of Sciences and of the Royal Bavarian and Belgian Academies of Sciences; Foreign Member of the Royal Societies of London and Edinburgh and of the Scientific |

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		Society of Christiania; Foreign Associate of the Royal Astronomical Society; Honorary Member of the London Mathematical Society, of the Calcutta Mathematical Society, and of the American Philosophical Society; Assistant Editor of the <i>Astronomical Journal</i> . West Nyack, N. Y.
1905,	Sept.	HILTEBEITEL, ADAM MILLER, M.A., Ph.D. (Princeton); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa.
1898,	Dec.	HIMOWICH, ADOLPH A., M.Sc., M.D. 1913 Madison Avenue, New York, N. Y.
1910,	Oct.	HITCHCOCK, RAYMOND ROYCE, M.A.; Instructor in Mathematics, University of North Dakota, University, N. Dak.
1905,	Feb.	HODGE, FREDERICK HUMBERT, M.A.; Professor of Mathematics, Franklin College, Franklin, Ind. 670 East Jefferson Street.
1910,	Dec.	HODGE, PERCY, B.A., B.Sc., Ph.D. (Cornell); Assistant Professor of Mechanics, Columbia University, New York, N. Y.
1902,	Apr.	HODGKINS, HOWARD LINCOLN, M.A., Ph.D. (George Washington); Professor and Head of the Department of Mathematics and Dean of the College of Engineering, George Washington University, Washington, D. C.
1909,	Apr.	HOGREFE, LOUIS T. W., Ph.C., B.Sc.; Member of the American Chemical Society; Director of the Department of Chemistry, Patton Paint Company, Milwaukee, Wis.
1895,	Feb.	HOLGATE, THOMAS FRANKLIN, M.A., Ph.D. (Clark), LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics and Dean of the College of Liberal Arts, Northwestern University, Evanston, Ill. 617 Library Street.
1902,	Dec.	HOSKINS, LEANDER MILLER, C.E., M.Sc.; Professor of Applied Mathematics, Stanford University, Palo Alto, Cal. 365 Lincoln Avenue.
1891,	May	HOWE, CHARLES SUMNER, Ph.D., Sc.D., LL.D.; F.R.A.S.; Member of the Astronomical and Astrophysical Society of America; President of the Case School of Applied Science, Cleveland, Ohio.
1891,	May	HOWE, HERBERT ALONZO, M.A., Sc.D.; Member of the Astronomische Gesellschaft; Member of the Astronomical and Astrophysical Society of America; Direc-

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Admission.

		tor of the Chamberlin Observatory and Dean of the College of Liberal Arts, University of Denver, University Park, Colo.
1909,	Apr.	HOWLAND, LEROY ALBERT, M.A., Ph.D. (Munich); Editor of the <i>Annals of Mathematics</i> ; Associate Professor of Mathematics, Wesleyan University, Middletown, Conn. 51 Wyllys Avenue.
1891,	May	HULBURT, LORRAIN SHERMAN, B.A., Ph.D. (Johns Hopkins); Collegiate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1904,	Feb.	HUN, JOHN GALE, Ph.D. (Johns Hopkins); Preceptor in Mathematics, Princeton University, Princeton, N. J.
1901,	Oct.	HUNTINGTON, EDWARD VERMILYE, M.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Editor of the <i>Annals of Mathematics</i> ; Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. 27 Everett Street.
1906,	Sept.	HURWITZ, WALLIE ABRAHAM, B.Sc., M.A. Hainholzweg 20, Göttingen, Germany.
1891,	Apr.	HUSSEY, WILLIAM J., B.Sc.; Foreign Associate of the Royal Astronomical Society; Professor of Astronomy and Director of the Observatory, University of Michigan, Ann Arbor, Mich.
1896,	Nov.	HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Associate Editor of the <i>Transactions of the American Mathematical Society</i> ; Professor of Mathematics, Cornell University, Ithaca, N. Y. Cornell Heights.
1891,	May	HYDE, EDWARD WYLLYS, C.E.; Actuary of the Columbia Life Insurance Company, Cincinnati, Ohio. 814 Lincoln Avenue, Station D.
1904,	Apr.	INGOLD, LOUIS, M.A., Ph.D. (Chicago); Instructor in Mathematics, University of Missouri, Columbia, Mo.
1908,	Dec.	IRWIN, FRANK, B.Sc., M.A., Ph.D. (Harvard); Instructor in Mathematics, Princeton University, Princeton, N. J. 78 Alexander Street.
1901,	Dec.	JACKSON, LAMBERT LINCOLN, M.A., Ph.D.; Head of the Educational Department of D. Appleton and Company, New York, N. Y. 35 West 32nd Street.
1907,	Dec.	JACKSON, WILLIAM HARTAS, M.A.; Member of the London Mathematical Society.



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1892, Jan.	JACOBUS, DAVID S., M.E.; Advisory Engineer, The Babcock and Wilcox Company, New York, N. Y.; Special Lecturer in Experimental Engineering, Stevens Institute of Technology, Hoboken, N. J. <i>70 Summit Avenue, Jersey City, N. J.</i>
1906, Sept.	JAMES, GEORGE OSCAR, Ph.D. (Johns Hopkins); Assistant Professor of Mathematics and Astronomy, Washington University, St. Louis, Mo.
1905, Dec.	JEANS, JAMES HOPWOOD, M.A., F.R.S.; Member of the London Mathematical Society; Stokes Lecturer in Mathematics, Cambridge University, Cambridge, England. <i>Woodlands, Chaucer Road.</i>
1897, Apr.	JOFFE, S. A., M.Sc.; Member of the Circolo Matematico di Palermo; Fellow of the Actuarial Society of America; Assistant Actuary of the Mutual Life Insurance Company of New York. <i>55 Cedar Street, New York, N. Y.</i>
1906, Sept.	JOHNSON, BENJAMIN FRANKLIN, M.A.; Professor of Mathematics, Missouri State Normal School, Cape Girardeau, Mo.
1891, Mar.	JOHNSON, WILLIAM WOOLSEY, M.A.; Member of the London Mathematical Society; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md.
1907, Apr.	JONES, CECIL CHARLES, M.A., Ph.D. (New Brunswick), LL.D. (Toronto); Chancellor of the University of New Brunswick, Fredericton, N. B., Canada.
1904, Oct.	KARPINSKI, LOUIS CHARLES, B.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. <i>912 Forest Avenue.</i>
1899, Oct.	*KASNER, EDWARD, M.A., Ph.D. (Columbia); Member of the Circolo Matematico di Palermo; Associate Editor of the <i>Transactions of the American Mathematical Society</i> ; Professor of Mathematics, Columbia University, New York, N. Y. <i>22 West 119th Street.</i>
1903, Oct.	KELLOGG, OLIVER DIMON, M.A., Ph.D. (Göttingen); Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of Missouri, Columbia, Mo. <i>411 Hitt Street.</i>
1891, Dec.	KENNELLY, A. E., M.A., D.Sc.; F.R.A.S.; Professor of Electrical Engineering, Harvard University, Cambridge, Mass.

Date of  
Admission.

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| 1900, | Dec.  | KENYON, ALFRED MONROE, M.A.; Professor and Head of the Department of Mathematics, Purdue University, Lafayette, Ind. <i>315 University Street, West Lafayette.</i>  |
| 1897, | Aug.  | KEPPEL, HERBERT G., B.A., Ph.D. (Clark); Member of the Amsterdam Mathematical Society; Professor of Mathematics, University of Florida, Gainesville, Florida.   |
| 1897, | Aug.  | KEYSER, CASSIUS JACKSON, B.Sc., M.A., Ph.D. (Columbia); Member of the Circolo Matematico di Palermo; American Editorial Representative of the <i>Hibbert Journal</i> ; Adrain Professor and Head of the Department of Mathematics, Columbia University, New York, N. Y. |
| 1907, | Sept. | KING, WILLIAM JOSEPH, M.A.; Instructor in Mathematics, U. S. Naval Academy, Annapolis, Md. <i>232 Prince George Street.</i>   |
| 1891, | Dec.  | KNISELY, ALEXANDER, B.Sc. Columbia City, Ind.   |
| 1903, | Apr.  | KOCH, ERNEST HERMAN, JR., B.Sc.; Instructor in Mathematics, Pratt Institute, Brooklyn, N. Y. <i>421 Park Place.</i>   |
| 1907, | Dec.  | KRATHWOHL, WILLIAM CHARLES, M.A.; Instructor in Mathematics, Columbia University, New York, N. Y.   |
| 1901, | Oct.  | KUHN, HARRY WALDO, Ph.D. (Cornell); Professor of Mathematics, Ohio State University, Columbus, Ohio. <i>316 West Ninth Avenue.</i>  |
| 1910, | Dec.  | KUSCHKE, CHARLES GUSTAVE PAUL, M.A., Mech.E.; Instructor in Mathematics, University of California, Berkeley, Cal. <i>2217 Fulton Street.</i>  |
| 1894, | Apr.  | *LADUE, POMEROY, B.Sc. <i>5011 Warrington Avenue, Philadelphia, Pa.</i>   |
| 1893, | Dec.  | LAMBERT, PRESTON ALBERT, M.A.; Professor of Mathematics, Lehigh University, South Bethlehem, Pa. <i>215 South Center Street, Bethlehem, Pa.</i>   |
| 1906, | Feb.  | LAMBERT, WALTER DAVIS, M.A.; Instructor in Mathematics, University of Pennsylvania Philadelphia, Pa. <i>College Hall.</i>   |
| 1910, | Apr.  | LAMOND, JOHN KENYON, B.Sc., M.A., Ph.D. (Yale); Instructor in Mathematics, Wesleyan University, Middletown, Conn. <i>5 Stowe Avenue.</i>  |
| 1897, | Jan.  | LANDIS, WILLIAM WEIDMAN, M.A., Sc.D.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Dickinson College, Carlisle, Pa.   |

Date of  
Admission.

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| 1898, | Apr.  | LANZA, GAETANO, B.Sc., C. and M.E.; Cavaliere dei S. S. Maurizio e Lazzaro; Professor of Theoretical and Applied Mechanics, in charge of the Department of Mechanical Engineering, Massachusetts Institute of Technology, Boston, Mass.   |
| 1906, | Oct.  | LASKER, EMANUEL, Ph.D. (Erlangen). <i>116 Nassau Street</i> , New York, N. Y.   |
| 1897, | May   | LAVES, KURT, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Associate Professor of Astronomy, University of Chicago, Chicago, Ill.   |
| 1889, | Dec.  | LEGRAS, GUSTAVE, M.Sc.; Associate Professor of Mathematics, College of the City of New York. <i>St. Nicholas Terrace</i> , New York, N. Y.  |
| 1900, | Oct.  | LEHMER, DERRICK NORMAN, M.A., Ph.D. (Chicago); Associate Professor of Mathematics, University of California, Berkeley, Cal. <i>2736 Regent Street</i> .   |
| 1909, | Feb.  | LEIB, DAVID DEITCH, M.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Yale University, New Haven, Conn.   |
| 1903, | Aug.  | LENNES, NELS JOHANN, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Columbia University, New York, N. Y.  |
| 1905, | Apr.  | LEONARD, HEMAN BURR, B.Sc., Ph.D. (Colorado). University of Oregon, Eugene, Ore.  |
| 1904, | Oct.  | LESTER, OLIVER CLARENCE, M.A., Ph.D. (Yale); Associate Member of the American Physical Society; Professor of Physics, University of Colorado, Boulder, Colo. <i>1121 Eleventh Street</i> .  |
| 1892, | Feb.  | LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin), Sc.D. (Honorary); Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Director of the Students' Observatory, University of California, Berkeley, Cal. <i>1816 Scenic Avenue</i> .   |
| 1904, | Sept. | LEVI-CIVITA, TULLIO, Math.D. (Padua); Member of the Reale Accademia dei Lincei and of the Italian Society of Sciences (the XL); Foreign Member of the Kaiserliche Leopoldinisch-Carolinische Deutsche Akademie der Naturforscher; Corresponding Member of the Académie Impériale des Sciences de Saint-Petersbourg; Corresponding Member of the Reale Istituto Veneto, of the Reale Accademia delle Scienze di Torino, and of the Mathematical Society of Kharkow; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; |

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Admission.

- Member of the Circolo Matematico di Palermo; Professor of Theoretical Mechanics, University of Padua, Padua, Italy. *Via Altinate, 14.*
- 1908, Sept. LINEHAN, PAUL HENRY, B.A.; Tutor in Mathematics, College of the City of New York, New York, N. Y. *607 West 138th Street.*
- 1894, June LING, GEORGE HERBERT, Ph.D. (Columbia); Professor of Mathematics, University of Saskatchewan, Saskatoon, Canada.
- 1907, Apr. LIPKE, JOSEPH, B.Sc., M.A.; Member of the Circolo Matematico di Palermo; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.
- 1900, Dec. LITTLE, CHARLES NEWTON, B.A., Ph.D. (Yale); Professor of Civil Engineering, University of Idaho, Moscow, Id.
- 1900, June LOCKE, LESLIE LELAND, M.A. *1102 Lincoln Place, Brooklyn, N. Y.*
- 1906, Apr. LONGLEY, WILLIAM RAYMOND, M.Sc., Ph.D. (Chicago); Assistant Professor of Mathematics, Yale University, New Haven, Conn. *121 Brownell Street.*
- 1901, Feb. LOVE, AUGUSTUS EDWARD HOUGH, M.A., D.Sc. (Oxford); F.R.S.; Honorary Secretary of the London Mathematical Society; Sedleian Professor of Natural Philosophy, Oxford University, Oxford, England. *34 St. Margaret's Road.*
- 1891, Apr. LOVE, JAMES LEE, M.A.; Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *16 Francis Avenue.*
- 1894, Oct. \*LOVETT, EDGAR ODELL, M.A., Ph.D. (Virginia, Leipzig); Member of the Deutsche Mathematiker-Vereinigung; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the American Philosophical Society; President of the William M. Rice Institute, Houston, Texas.
- 1905, Feb. LOWBER, JAMES WILLIAM, M.A., Ph.D., D.Sc., LL.D.; Member of the Circolo Matematico di Palermo; Member of the Société Astronomique de France; F.R.A.S. *113 East 18th Street, Austin, Texas.*
- 1906, Feb. LUBY, WILLIAM A., B.A.; Instructor in Mathematics, Central High School, Kansas City, Mo.
- 1896, Nov. \*LUDLOW, HENRY HUNT, Graduate of the U. S. Military Academy; Colonel, U. S. Coast Artillery. *Fort Carroll, N. C.*

Date of  
Admission.

- 1903, Feb. LUNN, ARTHUR C., M.A., Ph.D. (Chicago); Member of the Circolo Matematico di Palermo; Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Applied Mathematics, University of Chicago, Chicago, Ill.
- 1894, Oct. LYMAN, ELMER A., B.A.; Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 North Washington Street.*
- 1904, Sept. LYMER, JOHN CHARLES, M.A.; Professor of Mathematics, Lawrence College, Appleton, Wis. *485 John Street.*
- 1904, Dec. LYTLE, ERNEST BARNES, B.Sc., M.A., Ph.D. (Yale); Associate in Mathematics, University of Illinois, Urbana, Ill. *708 South Goodwin Avenue.*
- 1905, Apr. MCCLENON, RAYMOND BENEDICT, B.A., Ph.D. (Yale); Associate Professor of Mathematics, Iowa College, Grinnell, Ia. *1133 Main Street.*
- 1889, Dec. \*MCCLINTOCK, EMORY, M.A., Ph.D., LL.D.; Ex-PRESIDENT; Fellow of the Institute of Actuaries; Fellow of the Actuarial Society of America; Member of the London Mathematical Society; Vice-President and Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street, New York, N. Y.*
- 1903, Aug. MCCORMACK, THOMAS JOSEPH, LL.B., M.A.; Principal of La Salle-Peru High School, La Salle, Ill.
- 1902, Apr. McDONALD, JOHN HECTOR, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2337 Telegraph Avenue.*
- 1891, May McDUGALL, ALEXANDER HIRAM, B.A.; Principal of the Collegiate Institute, Ottawa, Canada. *286 Kent Street.*
- 1910, Sept. MCEWEN, GEORGE FRANCIS, B.A.; Member of the American Physical Society; Instructor in Applied Mathematics, Stanford University, Palo Alto, Cal. *660 Homer Avenue.*
- 1909, Oct. McKELVEY, JOSEPH VANCE, M.A., Ph.D. (Cornell); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *Forest Home.*
- 1895, Nov. MCKINNEY, THOMAS EMERY, M.A., Ph.D. (Chicago); Professor of Mathematics and Astronomy, University of South Dakota, Vermillion, S. D.
- 1891, Apr. McMAHON, JAMES, M.A.; Member of the London Mathematical Society; Professor of Mathematics, Cornell University, Ithaca, N. Y. *7 Central Avenue.*



Date of  
Admission.

- 1891, Apr. MCNEILL, MALCOLM, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill.
- 1898, Dec. \*MACAULAY, FRANCIS SOWERBY, M.A., D.Sc. (London); Member of the London Mathematical Society; Associate Editor of the *Mathematical Gazette*; Mathematical Master, St. Paul's School, West Kensington, London, W., England.
- 1891, May MACFARLANE, ALEXANDER, M.A., D.Sc. (Edinburgh), LL.D.; President of the Association for Promoting Quaternions and Allied Mathematics; Fellow of the Royal Society of Edinburgh; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo. 317 Victoria Avenue, Chatham, Ontario, Canada.
- 1909, Oct. MACGREGOR, HAZEL HOPE, B.Sc., M.A.; Fellow in Mathematics, University of Kansas, Lawrence, Kan. 1134 Louisiana Street.
- 1905, Feb. MACLAGAN-WEDDERBURN, JOSEPH H., M.A., D.Sc.; Fellow of the Royal Society of Edinburgh; Member of the Edinburgh Mathematical Society; Assistant Professor of Mathematics, Princeton University, Princeton, N. J. 95 Mercer Street.
- 1908, Apr. MACLAURIN, RICHARD COCKBURN, M.A., Sc.D., LL.D. (Cambridge); Member of the London Mathematical Society; Member of the American Philosophical Society; President of the Massachusetts Institute of Technology, Boston, Mass.
- 1888, Nov. MACLAY, JAMES, C.E., Ph.D. (Columbia); Professor of Mathematics, Columbia University, New York, N. Y.
- 1906, Apr. MACMILLAN, WILLIAM DUNCAN, M.A., Ph.D. (Chicago); Instructor in Astronomy, University of Chicago, Chicago, Ill. 5407 Woodlawn Avenue.
- 1907, Dec. MACNEILL, MURRAY, M.A.; Member of the Institute of Actuaries; Professor of Mathematics, Dalhousie University, Halifax, Nova Scotia, Canada.
- 1908, Sept. MACNEISH, HARRIS FRANKLIN, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. 40 Lake Place.
- 1897, Jan. MADDISON, ISABEL, B.Sc., Ph.D. (Bryn Mawr); Member of the London Mathematical Society; Recording Dean and Assistant to the President, Bryn Mawr College, Bryn Mawr, Pa.

Date of Admission.		
1907,	Sept.	MAHONEY, JAMES OWEN, B.E., M.Sc.; Teacher of Mathematics, High School, Dallas, Texas. <i>260 Crockett Street.</i>
1897,	Aug.	MALTBIE, WILLIAM HENRY, M.A., Ph.D. (Johns Hopkins); Attorney at Law, <i>626 Equitable Building</i> , Baltimore, Md.
1900,	June	MANCHESTER, JAMES EUGENE, B.Sc., D.Sc. (Tübingen); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.
1891,	Nov.	MANN, CHARLES RIBORG, M.A., Ph.D. (Berlin); Associate Professor of Physics, University of Chicago, Chicago, Ill.
1891,	Nov.	MANNING, HENRY PARKER, B.A., Ph.D. (Johns Hopkins); Member of the Circolo Matematico di Palermo; Associate Professor of Pure Mathematics, Brown University, Providence, R. I.
1903,	Oct.	MANNING, WILLIAM ALBERT, M.A., Ph.D. (Stanford); Member of the Circolo Matematico di Palermo; Assistant Professor of Applied Mathematics, Stanford University, Cal. <i>1002½ West California Avenue, Urbana, Ill.</i>
1891,	June	MARKLEY, JOSEPH LYBRAND, M.A., Ph.D. (Harvard); Professor of Mathematics, University of Michigan, Ann Arbor, Mich. <i>Geddes and Oxford Road.</i>
1909,	Feb.	MARSHALL, WILLIAM, M.Sc., Ph.D. (Zurich); Associate Professor of Mathematics, Purdue University, Lafayette, Ind. <i>514 South Tenth Street.</i>
1891,	Apr.	MARTIN, ARTEMAS, M.A., Ph.D., LL.D.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the Edinburgh Mathematical Society; Coast and Geodetic Survey, Washington, D. C. <i>918 N Street, N. W.</i>
1899,	Dec.	MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr); Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass.
1903,	Dec.	MARTIN, LOUIS ADOLPHE, JR., M.E., M.A.; Professor of Mechanics, Stevens Institute, Hoboken, N. J. <i>911 Castle Point Terrace.</i>
1908,	Oct.	MARTIN, THOMAS ADAMS, B.Sc., M.A.; Assistant Professor of Mathematics and Physics, Mount Union College, Alliance, Ohio.

Date of  
Admission.

- 1903, Oct. \*MASON, MAX, B.L., Ph.D., (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Editor of the *Transactions of the American Mathematical Society*; Professor of Mathematical Physics, University of Wisconsin, Madison, Wis.
- 1910, Apr. MATHEWS, ROBERT MAURICE, B.A.; Instructor in Mathematics, University High School, University of Chicago, Chicago, Ill. 56 *Hitchcock Hall*.
- 1905, Dec. MAXSON, ARTHUR RAY, M.A.; Instructor in Mathematics, Columbia University, New York, N. Y.
- 1909, Apr. MELCHER, GEORGE, B.A.; Head of the Department of Mathematics, State Normal School, Springfield, Mo. 1107 *Bardell Avenue*.
- 1892, Mar. MENDIZÁBAL-TAMBORELL, JOAQUIN DE, M.A., D.Sc., Geographical and Military Engineer; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Astronomische Gesellschaft; F.R.A.S.; Captain of Engineer Corps. *Sociedad "Alzate," Palma No. 13*, Mexico, D. F., Mexico.
- 1903, Oct. \*MERRILL, HELEN ABBOT, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Wellesley College, Wellesley, Mass.
- 1891, Apr. MERRIMAN, MANSFIELD, Ph.D., Sc.D.; Member of the American Philosophical Society; Consulting Engineer. Engineers' Club, 32 *West 40th Street*, New York, N. Y.
- 1889, June MESSENGER, HIRAM JOHN, Lit.B., Ph.D.; Fellow of the Actuarial Society of America; Actuary of the Travelers Insurance Company, Hartford, Conn.
- 1907, Sept. MESSICK, JOHN FREDERICK, B.A., Ph.D. (Johns Hopkins); Adjunct Professor of Mathematics, University of Georgia, Athens, Ga.
- 1891, Oct. \*METZLER, WILLIAM H., B.A., Ph.D. (Clark); Fellow of the Royal Society of Edinburgh; Corresponding Fellow of the Royal Society of Canada; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Mathematics Teacher*; Associate Editor of the *Journal of Pedagogy*; Francis H. Root Professor of Mathematics, Syracuse University, Syracuse, N. Y. 760 *Comstock Avenue*.

Date of  
Admission.

- 1910, Feb. MIKESH, JAMES STEPHEN, B.A.; Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.
- 1908, Apr. MILES, EGBERT J., M.A., Ph.D. (Chicago); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *80½ East Seneca Street.*
- 1903, Oct. MILLER, ERNEST ALLEN, B.Sc., M.A.; *113 North Tioga Street*, Ithaca, N. Y.
- 1910, Apr. MILLER, FRANK ELLSWORTH, M.A., Ph.D.; Professor of Mathematics, Otterbein University, Westerville, Ohio.
- 1898, Apr. \*MILLER, GEORGE A., Ph.D.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *American Mathematical Monthly*; Professor of Mathematics, University of Illinois, Urbana, Ill. *1103 West Illinois Street.*
- 1899, Oct. MILLER, JOHN ANTHONY, M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa.
- 1906, Feb. MILNE, WILLIAM J., M.A., Ph.D., LL.D.; President of the New York State Normal College, Albany, N. Y. *5 Elk Street.*
- 1900, Dec. MITCHELL, HENRY BEDINGER, E.E., M.A.; Professor of Mathematics, Columbia University, New York, N. Y. *The Benedick, 80 Washington Square East.*
- 1909, Oct. MITCHELL, HOWARD HAWKS, B.Ph., Ph.D. (Princeton); Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *124 Wall Street.*
- 1909, Oct. MITCHELL, ULYSSES GRANT, M.A., Ph.D. (Princeton); Assistant Professor of Mathematics, University of Kansas, Lawrence, Kan. *1240 Rhode Island Street.*
- 1910, Oct. MONTGOMERY, WILLIAM JOHN, M.A.; Assistant in Mathematics, University of Michigan, Ann Arbor, Mich.
- 1891, May MOODY, WILLIAM ALBION, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.*
- 1903, Feb. MOORE, CLARENCE LEMUEL ELISHA, B.Sc., M.A., Ph.D. (Cornell); Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
- 1907, Dec. MOORE, CHARLES NAPOLEON, B.A., M.Sc., Ph.D. (Harvard); Member of the Deutsche Mathematiker-Verein-

Date of  
Admission.

- igung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. *1123 East Third Street.*
- 1891, May \*MOORE, ELIAKIM HASTINGS, B.A., Ph.D. (Yale; Göttingen, honorary), LL.D. (Wisconsin), Sc.D. (Yale), Math.D. (Clark); EX-PRESIDENT; Member of the National Academy of Sciences; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Rendiconti del Circolo Matematico di Palermo*; Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5607 Monroe Avenue.*
- 1906, Oct. MOORE, ROBERT LEE, B.Sc., M.A., Ph.D. (Chicago); Instructor in Mathematics, Northwestern University, Evanston, Ill.
- 1905, Apr. MOREHEAD, JAMES CADDALL, M.A., M.Sc., Ph.D. (Yale); Assistant Professor of Mathematics, Northwestern University, Evanston, Ill. *1939 Sherman Avenue.*
- 1902, Apr. MORENO, HALCOTT C., M.A., Ph.D. (Clark); Associate Professor of Applied Mathematics, Stanford University, Cal.
- 1904, Dec. MORITZ, ROBERT EDOUARD, B.Sc., Ph.D. (Nebraska), Ph.N.D. (Strassburg); Professor and Head of the Department of Mathematics, University of Washington, Seattle, Wash.
- 1891, May MORLEY, FRANK, M.A., Sc.D. (Cambridge); Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo; Member of the American Philosophical Society; Editor of the *American Journal of Mathematics*; Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
- 1910, Oct. MORRIS, CHARLES CLEMENTS, M.A.; Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio.
- 1906, Feb. MORRIS, RICHARD, M.Sc., Ph.D. (Cornell); Professor of Mathematics and Graphics, Rutgers College, New Brunswick, N. J. *94 Easton Avenue.*
- 1904, Apr. MORRISON, FRANK MARION, B.A.; Assistant Professor of Mathematics, University of Washington, Seattle, Wash. *4719 Fifteenth Avenue, N. E.*
- 1906, Sept. MORROW, EMERSON BOYD, M.A.; Instructor in Mathematics, The Country School for Boys, Baltimore, Md.



Date of  
Admission.

1900, Feb.	MOULTON, FOREST RAY, B.A., Ph.D. (Chicago); Member of the National Academy of Sciences; Member of the Circolo Matematico di Palermo; Member of the Astronomical and Astrophysical Society of America; F.R.A.S.; Associate Editor of the <i>Transactions of the American Mathematical Society</i> ; Associate Professor of Astronomy, University of Chicago, Chicago, Ill.
1900, Dec.	*MUKHOPÂDHYÂY, ASUTOSH, M.A., LL.D.; Member of the Société Mathématique de France; Member of the Edinburgh Mathematical Society; Member of the Circolo Matematico di Palermo; F.R.A.S.; Examiner in Mathematics and Member of the Syndicate, University of Calcutta; Professor of Mathematics at the Indian Association for the Cultivation of Science. 77 Russa Road North, Bhowanipore, Calcutta, India.
1898, Oct.	MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Girls' High School, Brooklyn, N. Y.
1890, Dec.	MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Professor of Applied Mathematics, McGill University, Montreal, Canada.
1904, Apr.	MYERS, GEORGE WILLIAM, M.L., Ph.D. (Munich); Member of the Société Mathématique de France; Member of the Astronomische Gesellschaft; Member of the Astronomical and Astrophysical Society of America; Professor of the Teaching of Mathematics and Astronomy, University of Chicago, Chicago, Ill. 1953 East 72d Street (Bryn Mawr).
1903, Aug.	NEIKIRK, LEWIS IRVING, M.Sc., Ph.D. (Pennsylvania); Instructor in Mathematics, University of Illinois, Urbana, Ill. 907 West Nevada Street.
1891, June	NELSON, ALFRED BRIERLEY, M.A., M.D.; Emeritus Professor of Mathematics, Central University, Danville, Ky. 443 West Lexington Avenue.
1910, Oct.	NEWCOMER, HARRY SIDNEY, B.A.; University of Wisconsin, Madison, Wis. 1610 Madison Street.
1904, Dec.	NEWKIRK, BURT LEROY, M.A., Ph.D. (Munich); Member of the Astronomische Gesellschaft; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn.
1897, Jan.	NEWSON, MARY WINSTON, B.A., Ph.D. (Göttingen). 1702 Massachusetts Street, Lawrence, Kan.

Date of  
Admission.

- 1899, Aug. NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Assistant Engineer, State Engineer's Office. Clinton, N. Y.
- 1900, Dec. NICHOLS, WALTER SMITH, M.A.; Fellow of the Actuarial Society; Editor of the *Insurance Monitor*, the *Insurance Law Journal*, and the *Personal Injury Law Journal*; Consulting Actuary. 100 William Street, New York, N. Y.
- 1899, Dec. NOBLE, CHARLES ALBERT, B.Sc., Ph.D. (Göttingen); Assistant Professor of Mathematics, University of California, Berkeley, Cal. 2224 Piedmont Way.
- 1906, Sept. OBEAR, GEORGE BARROWS, M.Sc.; Member of the Circolo Matematico di Palermo. Brown University, Providence, R. I.
- 1891, Dec. OLDS, GEORGE DANIEL, M.A., LL.D.; Professor of Mathematics, Amherst College, Amherst, Mass.
- 1905, Oct. OLSON, HENRY NATHANIEL, B.A.; Instructor in Mathematics, Bethany College, Lindsborg, Kan. P. O. Box 288.
- 1891, Apr. OSBORNE, GEORGE ABBOTT, B.Sc.; Walker Professor of Mathematics Emeritus, Massachusetts Institute of Technology, Boston, Mass.
- 1895, Feb. OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen), LL.D. (Clark); EX-PRESIDENT; Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the Mathematical Society of Kharkov; Member of the Calcutta Mathematical Society; Editor of the *Rendiconti del Circolo Matematico di Palermo*; Professor of Mathematics, Harvard University, Cambridge, Mass. 74 Avon Hill Street.
- 1906, Apr. OWENS, FREDERICK W., M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Cornell University, Ithaca, N. Y. 37 West Avenue, Cornell Heights.
- 1900, Dec. PAGE, JAMES MORRIS, M.A., Ph.D. (Leipzig); Professor of Mathematics and Dean of the University of Virginia, Charlottesville, Va.
- 1910, Feb. PAINE, GEORGE PORTER, M.A.; Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn.
- 1907, Feb. PALMER, THOMAS WAVERLY, M.A., LL.D.; President of the Alabama Girls' Industrial School, Montevallo, Ala.

Date of  
Admission.

1897, May	PALMIÉ, ANNA HELENE, B.Ph.; Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. <i>422 Mayfield Road.</i>
1894, Mar.	*PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Head of the Department of Science and Professor of Physics, Central Manual Training School, Philadelphia, Pa. <i>17th and Wood Streets.</i>
1896, Dec.	PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton, honorary); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa.
1907, Feb.	PATILLO, NATHAN ALLEN, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Randolph-Macon Woman's College, Lynchburg, Va.
1906, Sept.	PEDERSEN, FREDERICK MALLING, E.E., D.Sc.; Assistant Professor of Mathematics, College of the City of New York, New York, N. Y. <i>452 West 144th Street.</i>
1908, Oct.	PEED, MANSFIELD THEODORE, M.A.; Professor of Pure Mathematics and Astronomy, Emory College, Oxford, Ga.
1891, May	PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipzig); Member of the National Academy of Sciences; Member of the Circolo Matematico di Palermo; Member of the Astronomical and Astrophysical Society of America; Member of the American Philosophical Society; Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. <i>The Jefferson Physical Laboratory.</i>
1898, Oct.	PELL, ALEXANDER, Ph.D. (Johns Hopkins); Associate Professor of Mathematics, Armour Institute, Chicago, Ill.
1906, Feb.	PELL, ANNA (Mrs. ALEXANDER), Ph.D. (Chicago). Chicago, Ill.
1908, Feb.	PEMBERTON, WALKER S., B.Sc.; Professor of Mathematics, Wheaton College, Wheaton, Ill. <i>814 College Arcue.</i>
1906, Feb.	PESTA, ROSE ALICE, M.L.; Principal of the McAllister School, Chicago, Ill. <i>225 East 50th Street.</i>
1893, Oct.	PETTEGREW, DAVID LYMAN, Member of the Circolo Matematico di Palermo. <i>P. O. Box 75, Worcester, Mass.</i>
1896, Nov.	PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. <i>137 Wall Street.</i>

Date of  
Admission.

1906, Feb.	PHILLIPS, HENRY BAYARD, B.Sc., Ph.D. (Johns Hopkins); Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1903, Aug.	PIERCE, ARCHIE BURTON, B.Sc., M.A., Ph.D. (Zurich); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. <i>1339 Washtenaw Avenue.</i>
1894, Oct.	PIERPONT, JAMES, Ph.D. (Vienna), LL.D. (Clark); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Yale University, New Haven, Conn. <i>42 Mansfield Street.</i>
1910, Oct.	PITCHER, ARTHUR DUNN, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Kansas, Lawrence, Kan.
1905, Feb.	PLIMPTON, GEORGE ARTHUR, B.A.; Trustee of Amherst College; Treasurer of Barnard College. Ginn and Company, <i>70 Fifth Avenue</i> , New York, N. Y.
1905, Feb.	PONZER, ERNEST WILLIAM, M.Sc.; Assistant Professor of Applied Mathematics, Stanford University, Cal.
1890, Dec.	POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Celestial Mechanics, Columbia University, New York, N. Y. <i>4 East 48th Street.</i>
1905, Sept.	POOR, JOHN MERRELL, B.A., Ph.D. (Princeton); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Astronomy, Dartmouth College, Hanover, N. H.
1897, Feb.	PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard); Professor of Mathematics, University of Texas, Austin, Texas.
1907, Feb.	POSEY, FRANCIS DUNNINGTON, B.A. University of Georgia, Athens, Ga.
1907, Sept.	POWELL, H. WHEELER, B.Sc.; Tutor in Mathematics, College of the City of New York. <i>St. Nicholas Terrace</i> , New York, N. Y.
1892, May	PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. <i>Benner Street, Highland Park.</i>

Date of Admission.		
1907,	Oct.	PROCTOR, CHARLES A., B.A.; Assistant Professor of Mathematics, Dartmouth College, Hanover, N. H.
1889,	Dec.	*PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin), Sc.D. (Columbia, honorary); Professor of Electro-Mechanics, Columbia University, New York, N. Y.
1902,	Apr.	PUTNAM, THOMAS MILTON, M.Sc., Ph.D. (Chicago); Assistant Professor of Mathematics, University of California, Berkeley, Cal.
1910,	Feb.	PUTNAM, WILLIAM LOWELL, B.A., LL.B.; Chairman of the Committee appointed by the Overseers of Harvard University to visit the Department of Mathematics. 60 State Street, Boston, Mass.
1903,	Dec.	RAGSDALE, VIRGINIA, B.A., Ph.D. (Bryn Mawr). Jamestown, N. C.
1904,	Oct.	RANUM, ARTHUR, Ph.D. (Chicago); Member of the Deutsche Mathematiker-Vereinigung; Editor of the <i>Bulletin of the American Mathematical Society</i> ; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. 91 Wait Avenue.
1903,	Dec.	RASOR, S. EUGENE, M.A., M.Sc.; Associate Professor of Mathematics, Ohio State University, Columbus, Ohio.
1891,	Dec.	RAYSON, AMY, M.A.; Joint Principal of School for Girls, New York, N. Y. 168 West 75th Street.
1908,	Feb.	REAVES, SAMUEL WATSON, B.Sc., B.A.; Professor of Mathematics, University of Oklahoma, Norman, Okla. 407 Boyd Street.
1905,	Feb.	*REDDICK, HARRY WILFRED, M.A., Ph.D. (Columbia); Instructor in Mathematics, Columbia University, New York, N. Y. Livingston Hall.
1907,	Apr.	REGIS, BROTHER FRANCIS, M.A.; Professor of Mathematics, Christian Brothers' College, St. Louis, Mo.
1900,	Apr.	REID, LEGH WILBER, B.A., M.Sc., Ph.D. (Göttingen); Professor of Mathematics, Haverford College, Haverford, Pa.
1903,	Feb.	REYNOLDS, FREDERICK GREGORY, LL.B., Sc.D.; Assistant Professor of Mathematics, College of the City of New York, New York, N. Y. St. Nicholas Terrace.
1893,	Apr.	RICE, CHARLES MOEN, B.A. P. O. Box 215, Worcester, Mass.
1905,	Apr.	RICHARDSON, R. G. D., B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Pro-



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		fessor of Mathematics, Brown University, Providence, R. I.
1905,	Apr.	RICHARDSON, SOPHIA FOSTER, B.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1899,	Aug.	*RICHMOND, HERBERT WILLIAM, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Fellow and Lecturer of King's College, and University Lecturer, Cambridge University, Cambridge, England.
1902,	Oct.	RIETZ, HENRY LEWIS, B.Sc., Ph.D. (Cornell); Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics and Statistician of the Agricultural Experiment Station, University of Illinois, Urbana, Ill. <i>907 West California Avenue.</i>
1903,	Apr.	RIGGS, NORMAN C., M.Sc.; Assistant Professor of Applied Mechanics, Carnegie Technical Schools, Pittsburgh, Pa.
1906,	Apr.	RISLEY, WALTER JOHN, B.Sc., M.A.; Professor of Mathematics, James Milliken University, Decatur, Ill. <i>1340 West Macon Street.</i>
1907,	Dec.	ROBERTS, MARIA M., B.L.; Associate Professor of Mathematics, Iowa State College, Ames, Ia.
1910,	Sept.	ROBINSON, JOSEPHINE ALBERTA, B.A.; Professor of Mathematics, Berea College, Berea, Ky.
1891,	May	ROCKWOOD, CHARLES GREENE, JR., M.A., Ph.D. (Yale); Emeritus Professor of Mathematics, Princeton University, Princeton, N. J. <i>34 Bayard Lane.</i>
1896,	Apr.	ROE, EDWARD DRAKE, JR., M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the Astronomical and Astrophysical Society of America; John Raymond French Professor of Mathematics, Syracuse University, Syracuse, N. Y. <i>105 West Ostrander Avenue.</i>
1902,	Apr.	ROEVER, WILLIAM HENRY, B.Sc., Ph.D. (Harvard); Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, Washington University, St. Louis, Mo.
1908,	Oct.	ROOSEVELT, GEORGE EMLÉN, B.A. <i>33 Wall Street</i> , New York, N. Y.
1897,	Feb.	ROTHROCK, DAVID ANDREW, M.A., Ph.D. (Leipzig); Member of the Deutsche Mathematiker-Vereinigung; Member of the Société Mathématique de France;

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		Member of the Circolo Matematico di Palermo; Professor of Mathematics, Indiana University, Bloomington, Ind. <i>1000 Atwater Avenue.</i>
1910,	Apr.	ROWE, JOSEPH EUGENE, M.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Goucher College, Baltimore, Md.
1904,	Feb.	RUNNING, THEODORE RUDOLPH, M.Sc., Ph.D. (Wisconsin); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. <i>1019 Michigan Avenue.</i>
1903,	Aug.	RUSK, WILLIAM JAMES, M.A.; Professor of Mathematics, Iowa College, Grinnell, Ia. <i>1022 Park Street.</i>
1906,	Oct.	RUSSELL, WILLIAM POLK, M.A.; Assistant Professor of Mathematics, Pomona College, Claremont, Calif.
1910,	Oct.	RUTLEDGE, GEORGE, B.A.; Adjunct Professor of Mathematics, Georgia School of Technology, Atlanta, Ga.
1907,	Oct.	RYSGAARD, JENS MADSEN, B.A.; Instructor in Mathematics, University of North Dakota, University, N. D.
1898,	Aug.	SAFFORD, FREDERICK HOLLISTER, M.A., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. <i>College Hall.</i>
1897,	Dec.	SAUREL, PAUL LOUIS, D.Sc. (Bordeaux); Associate Professor of Mathematics, College of the City of New York, New York, N. Y. <i>St. Nicholas Terrace.</i>
1908,	Oct.	SAXTON, LYNN MATEER, M.Sc., Pd.D.; Instructor in Mathematics, College of the City of New York, New York, N. Y. <i>St. Nicholas Terrace.</i>
1891,	Nov.	SAYRE, HERBERT ARMISTEAD, B.E., Ph.D. (Johns Hopkins); Professor of Mathematics, University of Alabama; University, Ala.
1906,	Oct.	SCARBOROUGH, JAMES HARRIS, M.Sc., M.A., Ph.D.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Missouri State Normal School, Warrensburg, Mo.
1892,	Feb.	*SCHMIEDEL, OSCAR, B.Sc., M.A.; Professor of Mathematics, Bellevue College, Bellevue, Neb.
1900,	Oct.	SCHOTTENFELS, IDA MAX, M.A. <i>423 East 48th Place, Chicago, Ill.</i>
1892,	Apr.	SCHULTZE, ARTHUR, Ph.D.; Assistant Professor of Mathematics, New York University; Head of the Mathematical Department, High School of Commerce, New York, N. Y.

Date of  
Admission.

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| 1893, | Oct. | SCHWATT, ISAAC JOACHIM, Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.   |
| 1906, | Feb. | SCHWEITZER, ARTHUR RICHARD, B.Ph., M.Sc. 452 Oakdale Avenue, Chicago, Ill.  |
| 1891, | May  | SCOTT, CHARLOTTE ANGAS, D.Sc. (London); Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Honorary Member of the Amsterdam Mathematical Society; Co-editor of the <i>American Journal of Mathematics</i> ; Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.   |
| 1902, | Oct. | SCOTT, GEORGE HARVEY, M.A.; Professor of Mathematics and Astronomy, Yankton College, Yankton, So. Dak.  |
| 1889, | June | SEARLE, REV. GEORGE MARY, M.A., Ph.D.; Catholic University, Washington, D. C.   |
| 1895, | Aug. | SEE, THOMAS JEFFERSON JACKSON, M.A., M.Sc., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Member of the Société Astronomique de France; F.R.A.S.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the Calcutta Mathematical Society; Member of the American Physical Society; Member of the American Philosophical Society; Professor of Mathematics, U. S. Navy, Mare Island, Cal. <i>Naval Observatory</i> . |
| 1902, | Feb. | SÉGUIER, JEAN ARMAND MARIE JOSEPH DE, D.Sc.; Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo. 56 Rue des Saints Pères, Paris, France.  |
| 1899, | Aug. | SELLEW, GEORGE TUCKER, M.A., Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill.   |
| 1905, | Apr. | SHARPE, FRANCIS ROBERT, B.A., Ph.D. (Cornell); Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. 213 Mitchell Street.   |
| 1891, | Apr. | SHATTUCK, SAMUEL WALKER, B.Sc., M.A., C.E.; Professor of Mathematics, University of Illinois, Champaign, Ill.   |

Date of  
Admission.

- 1894, Mar. SHAW, JAMES BYRNIE, M.Sc., D.Sc.; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Illinois, Urbana, Ill.
- 1907, Dec. SHELDON, ERNEST WILSON, M.A., Ph.D. (Yale); Assistant Professor of Mathematics, University of Alberta, Strathcona, Alberta, Canada. *P. O. Box, 585.*
- 1906, Dec. SHEPARD, ELMER I., M.A.; Instructor in Mathematics, Williams College, Williamstown, Mass.
- 1906, Sept. SHORT, ROBERT L., B.A.; Mathematical Department, Technical High School, Cleveland, Ohio.
- 1909, Oct. SHUMWAY, ROYAL R., B.A.; Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. *716 Twelfth Avenue, S. E.*
- 1906, Oct. SICELOFF, LEWIS PARKER, B.A.; Instructor in Mathematics, Columbia University, New York, N. Y.
- 1908, Feb. SILVERMAN, LOUIS LAZARUS, M.A., Ph.D. (Missouri); Instructor in Mathematics, Cornell University, Ithaca, N. Y.
- 1906, Feb. SIMPSON, CHARLES GAMBLE, B.Ph., M.A.; Instructor in Mathematics, State University of Iowa, Iowa City, Ia. *600 West 133d Street, New York, N. Y.*
- 1905, Feb. SINCLAIR, MARY EMILY, M.A., Ph.D. (Chicago); Associate Professor of Mathematics, Oberlin College, Oberlin, Ohio.
- 1904, Oct. \*SISAM, CHARLES HERSCHEL, Ph.D. (Cornell); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *609 South Busey Avenue.*
- 1899, Aug. SKINNER, ERNEST BROWN, B.A., Ph.D. (Chicago); Associate Professor of Mathematics, University of Wisconsin, Madison, Wis. *210 Lathrop Street.*
- 1899, Oct. SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago); Member of the Circolo Matematico di Palermo; Editor of the *American Mathematical Monthly*; Associate Professor of Mathematics, University of Chicago, Chicago, Ill. *58th Street and Ellis Avenue.*
- 1891, May \*SLICHTER, CHARLES S., M.Sc.; Consulting Engineer, U. S. Reclamation Service; Professor of Applied Mathematics, University of Wisconsin, Madison, Wis. *13 Carroll Block.*
- 1909, Oct. SLOBIN, HERMON LESTER, B.A., Ph.D. (Clark); Member of the Circolo Matematico di Palermo; Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.

Date of  
Admission.

- 1901, Apr. SLOCUM, STEPHEN ELMER, B.E., Ph.D. (Clark); Professor of Applied Mathematics, University of Cincinnati, Cincinnati, Ohio.
- 1905, Feb. SMITH, ARTHUR WHIPPLE, M.Sc., Ph.D. (Chicago); Associate Professor of Mathematics, Colgate University, Hamilton, N. Y.
- 1904, Sept. \*SMITH, CLARA ELIZA, B.A., Ph.D. (Yale); Instructor in Mathematics, Wellesley College, Wellesley, Mass. *90 Shafer Hall.*
- 1893, Oct. \*SMITH, DAVID EUGENE, M.Ph., Ph.D., LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Bulletin of the American Mathematical Society*; Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.
- 1898, Apr. SMITH, EUGENE RANDOLPH, M.A.; Associate Editor of the *Mathematics Teacher*; Head of the Department of Mathematics, Polytechnic Preparatory School, Brooklyn, N. Y. *472 Argyle Road.*
- 1909, Dec. SMITH, EVA MARIA, B.A.; Associate of Newnham College, Cambridge, England; Lecturer in Mathematics, Ladies' College, Cheltenham. *Astell House, Cheltenham, England.*
- 1905, Oct. SMITH, FRANKLIN HANS, M.A.; Instructor in Mathematics, Eastern District High School, Brooklyn, N. Y. *201 West 94th Street, New York, N. Y.*
- 1907, Feb. SMITH, GERTRUDE, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
- 1909, Oct. SMITH, IRVIN WEBSTER, M.A.; Assistant Professor of Mathematics, College of Agriculture and Mechanic Arts, University of North Dakota, Fargo, N. Dak. *1108 Tenth Street North.*
- 1909, Feb. SMITH, JAMES BROOKES, M.A.; Assistant Professor of Mathematics, Hampden Sidney College, Hampden Sidney, Va.
- 1891, Nov. SMITH, PERCY F., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society*; Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *330 Willow Street.*
- 1891, Apr. SMITH, WILLIAM BENJAMIN, M.A., Ph.D. (Göttingen), LL.D. (Kentucky); Professor of Philosophy, Tulane University, New Orleans, La.



Date of  
Admission.

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|-------|------|---|
| 1908, | Feb. | SMITH, WILLIAM MACKEY, B.Ph.; Instructor in Mathematics, Lafayette College, Easton, Pa.; Fellow in Mathematics, Columbia University. <i>373 West 123d Street, New York, N. Y.</i>   |
| 1904, | Oct. | SNELLING, CHARLES MERCER, Graduate of the Virginia Military Institute, M.A.; Dean of the University and Professor of Mathematics, University of Georgia, Athens, Ga. <i>P. O. Box 283.</i>  |
| 1889, | Dec. | SNOOK, THOMAS EDWARD, M.E.; Architect and Engineer. <i>73 Nassau Street, New York, N. Y.</i>  |
| 1895, | Apr. | SNYDER, MONROE BENJAMIN, M.A.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Applied Mathematics and Head of the Department of Mathematics, Central High School, Philadelphia, Pa.; Director of the Philadelphia Observatory. <i>2402 North Broad Street.</i>        |
| 1896, | Nov. | SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the <i>Bulletin of the American Mathematical Society</i> ; Professor of Mathematics, Cornell University, Ithaca, N. Y. <i>214 University Avenue.</i> |
| 1909, | Feb. | SPARROW, CARROLL MASON, B.A.; Member of the American Physical Society; Johns Hopkins University, Baltimore, Md.   |
| 1910, | Feb. | SPUNAR, VALENTIN MAX, Mech.E., E.E.; Western Electric Company, Chicago, Ill. <i>1137 West Chicago Avenue.</i>   |
| 1888, | Nov. | STABLER, EDWARD LINCOLN, M.A., Ph.D. (Columbia); Central Leather Co. <i>47 John Street, New York, N. Y.</i>   |
| 1908, | Feb. | STAGER, HENRY WALTER, M.A., Ph.D. (California); Instructor in Mathematics, Fresno Junior College, Fresno, Cal. <i>3036 Fresno Street.</i>   |
| 1906, | Feb. | STAMPER, ALVA WALKER, B.Sc., M.A., Ph.D. (Columbia); Head of the Department of Mathematics, State Normal School, Chico, Cal. <i>326 Salem Street.</i>   |
| 1894, | Nov. | *STECKER, HENRY FREEMAN, M.Sc., Ph.D.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Pennsylvania State College, State College, Pa. <i>306 Mills Street.</i>  |
| 1891, | Jan. | STEINMETZ, CHARLES PROTEUS, Ph.D.; Consulting Engineer of the General Electric Company; Professor of  |

Date of Admission.	
	Electrical Engineering, Union University, Schenectady, N. Y. <i>Wendell Avenue.</i>
1907, Apr.	STELLWAGEN, HERBERT PHILIP, B.Sc.; Teacher of Mathematics, Yeatman High School, St. Louis, Mo. <i>2209 Athlone Avenue.</i>
1906, Oct.	STÉPHANOS, CYPARISSOS, Ph.D. (Athens), D.Sc. (Paris); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of Athens, Athens, Greece. <i>20 Rue de Solon.</i>
1906, Apr.	STEPHENS, ROSWELL POWELL, B.A., Ph.D. (Johns Hopkins); Associate Professor of Mathematics, University of Georgia, Athens, Ga.
1908, Sept.	STONE, JOHN C., M.A.; Head of the Department of Mathematics, State Normal School, Montclair, N. J. <i>653 Valley Road.</i>
1891, May	STONE, ORMOND, M.A.; Editor of the <i>Annals of Mathematics</i> ; Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia, Va.
1897, Feb.	STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipzig); Member of the National Academy of Sciences; Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.
1903, Feb.	STROMQUIST, CARL EBEN, B.Sc., Ph.D. (Yale); Professor of Mathematics, University of Wyoming, Laramie, Wy. <i>152 North Sixth Street.</i>
1895, Dec.	STRONG, WENDELL MELVILLE, LL.B., M.A., Ph.D. (Yale); Fellow of the Actuarial Society of America; Member of the London Mathematical Society; Editor of the <i>Transactions of the Actuarial Society of America</i> ; Assistant Actuary of the Mutual Life Insurance Company of New York. <i>32 Nassau Street.</i>
1904, Oct.	STUDY, EDUARD, Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Bonn, Bonn, Germany. <i>Argelanderstrasse 126.</i>
1903, Apr.	SWARTZEL, KARL DALE, M.Sc.; Professor of Mathematics, Ohio State University, Columbus, Ohio. <i>1952 Iuka Avenue.</i>
1904, Apr.	*SWIFT, ELIJAH, M.A., Ph.D. (Göttingen); Editor of the <i>Annals of Mathematics</i> ; Preceptor in Mathematics,

Date of  
Admission.

		Princeton University, Princeton, N. J. 80 Murray Place.
1891,	May	*TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Clark University, Worcester, Mass.
1896,	Nov.	*TANNER, JOHN HENRY, B.Sc., Ph.D.; Professor of Mathematics, Cornell University, Ithaca, N. Y. <i>Cornell Heights.</i>
1903,	Oct.	TAYLOR, EDSON HOMER, B.Sc., M.A., Ph.D. (Harvard); Teacher of Mathematics, Eastern Illinois State Normal School, Charleston, Ill.
1891,	Apr.	TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y.
1903,	Feb.	TAYLOR, WILLIAM ERASTUS, M.Ph.; Ph.D. (Syracuse); Professor of Applied Mathematics, College of Applied Science, Syracuse University, Syracuse, N. Y. 822 <i>Irving Avenue.</i>
1891,	Apr.	*THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. 11 <i>Morven Street.</i>
1908,	Apr.	THOMPSON, JOHN SPENCER, B.A.; Fellow of the Institute of Actuaries; Fellow of the Actuarial Society of America; Mutual Life Insurance Company. 32 <i>Nassau Street</i> , New York, N. Y.
1897,	Jan.	THORNBURG, CHARLES LEWIS, B.Sc., C.E., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. 2 <i>University Park.</i>
1901,	Oct.	TORY, HENRY M., M.A., D.Sc., LL.D.; Fellow of the Royal Society of Canada; President of the University of Alberta, Canada.
1907,	Oct.	TOUSSAINT, CAMILLE A., M.A.; Tutor in Mathematics, College of the City of New York, New York, N. Y. 3688 <i>Boulevard</i> , Jersey City, N. J.
1906,	Feb.	TOUTON, FRANK CHARLES, B.Ph.; Instructor in Mathematics, Central High School, Kansas City, Mo. 3838 <i>Harrison Boulevard.</i>
1902,	Apr.	TOWNLEY, SIDNEY DEAN, M.Sc., Sc.D. (Michigan); Editor of the <i>Publications of the Astronomical Society of the Pacific</i> ; Associate Professor of Applied Mathematics, Stanford University, Cal. Box 815.

Admission.  
Date of

1895,	Nov.	TOWNSEND, EDGAR JEROME, M.A., Ph.D. (Göttingen); Professor of Mathematics and Dean of the College of Science, University of Illinois, Champaign, Ill. 519 <i>John Street</i> .
1905,	Dec.	TRAVIS, JOHN FRANCIS, M.A.; Member of the Circolo Matematico di Palermo. 3927 <i>Forbes Street</i> , Pittsburgh, Pa.
1906,	Feb.	TRIPP, MYRON OWEN, B.Sc., B.A., Ph.D. (Columbia); Instructor in Pure Mathematics, College of the City of New York, New York, N. Y. <i>Lincoln Park, Yonkers, N. Y.</i>
1894,	Aug.	TYLER, HARRY WALTER, B.Sc., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1907,	Feb.	UNDERHILL, ANTHONY LISPENARD, B.Sc., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. 615 <i>Sixth Street, S. E.</i>
1903,	Aug.	UPTON, CLIFFORD BREWSTER, M.A.; Assistant Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.
1888,	Nov.	VAN AMRINGE, J. HOWARD, M.A., Ph.D., L.H.D., LL.D.; Ex-PRESIDENT; Emeritus Professor of Mathematics, Columbia University, New York, N. Y. 48 <i>East 26th Street</i> .
1903,	Oct.	VAN BENSCHOTEN, ANNA LAVINIA, M.Sc.; Ph.D. (Cornell); Professor of Mathematics, Wells College, Aurora, N. Y.
1902,	Feb.	VAN DER HEYDEN, ALEXANDER FREDERICK, M.A.; Member of the Mathematical Association; Mathematical Master, Middlesbrough High School, Middlesbrough, England. 3 <i>St. John's Terrace</i> .
1903,	Feb.	VAN ORSTRAND, CHARLES EDWIN, M.Sc.; U. S. Geological Survey. <i>Geophysical Laboratory, Carnegie Institution</i> , Washington, D. C.
1893,	Apr.	VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen), LL.D. (Clark); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Wisconsin, Madison, Wis.

Date of  
Admission.

1891, Apr.	VAN VLECK, JOHN MONROE, M.A., LL.D.; Member of the Astronomische Gesellschaft; Member of the Astronomical and Astrophysical Society of America; Emeritus Professor of Mathematics and Astronomy, Wesleyan University, Middletown, Conn.
1900, June	VAUGHN, WILLIAM JAMES, M.A., LL.D.; Professor of Mathematics and Astronomy, Vanderbilt University, Nashville, Tenn.
1903, Aug.	*VEBLEN, OSWALD, B.A., Ph.D. (Chicago); Member of the Circolo Matematico di Palermo; Professor of Mathematics, Princeton University, Princeton, N. J.
1900, Dec.	VIVIAN, ROXANA HAYWARD, B.A., Ph.D. (Pennsylvania); Associate Professor of Mathematics, Wellesley College, Wellesley, Mass.
1905, Dec.	VOLTERRA, VITO, Phys.D. (Pisa), Math.D. (Christiania), Sc.D. (Cambridge), Ph.D. (Stockholm), Phys.D. (Clark); Senator of the Kingdom of Italy; Member of the Italian Society of Sciences; Member of the Reale Accademia dei Lincei; Member of the Reale Accademia delle Scienze de Torino; Foreign Member of the Royal Society of London and of the Royal Academy of Stockholm; Corresponding Member of the Institut de France, the Imperial Academy of St. Petersburg, the Königliche Gesellschaft der Wissenschaften zu Göttingen, the Kaiserliche Leopoldinisch-Carolinische Akademie, the Reale Istituto Lombardo di Scienze e Lettere, the Reale Accademia delle Scienze dell' Istituto di Bologna, and the Reale Accademie delle Scienze, Lettere ed Arti di Modena; Honorary Member of the London Mathematical Society, the Mathematical Society of Kharkov, and the Calcutta Mathematical Society; Member of the Bureau de la Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematical Physics and Celestial Mechanics, University of Rome, Rome, Italy. <i>Via in Lucina, 17.</i>
1905, Dec.	WADDELL, MARY EVELYN GERTRUDE, M.A. Orono, Ontario, Canada.
1909, Sept.	WAHLIN, GUSTAF ERIC, B.A., Ph.D (Yale); Instructor in Mathematics, University of Illinois, Urbana, Ill. <i>1308 West Stoughton Street.</i>



Date of Admission.		
1891,	Oct.	WAIT, LUCIEN AUGUSTUS, B.A.; Emeritus Professor of Mathematics, Cornell University, Ithaca, N. Y. <i>Rockledge.</i>
1891,	Apr.	WALDO, CLARENCE ABIATHAR, M.A., Ph.D.; Professor of Mathematics, Washington University, St. Louis, Mo.
1898,	Dec.	WALKER, BUZZ M., M.Sc., Ph.D. (Chicago); Professor of Mathematics and Director of the School of Engineering, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.
1905,	Apr.	WALKER, MARY SHORE, B.A., Ph.D. (Yale); Instructor in Mathematics, University of Missouri, Columbia, Mo. <i>612 Turner Avenue.</i>
1908,	Apr.	WALSH, CHARLES BURTON, B.A.; Teacher of Mathematics, Ethical Culture High School, New York, N. Y. <i>33 Central Park West.</i>
1898,	Apr.	WASHBURNE, ALVA COURTENAY, Member of the Actuarial Society of America; Assistant Actuary of the Berkshire Life Insurance Company, Pittsfield, Mass.
1902,	Apr.	WEBB, HARRISON EMMETT, B.A.; Teacher of Mathematics, Barringer High School, Newark, N. J. <i>12 Irving Place, Summit, N. J.</i>
1891,	Oct.	WEBB, JOHN BURKITT, C.E.; Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J. Consulting Engineer. <i>Hoboken, N. J.</i>
1891,	May	WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin), Sc.D. (Tufts), LL.D. (Hobart); Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Physics, Clark University, Worcester, Mass.
1891,	June	WEEKS, RUFUS WELLS, Associate of the Institute of Actuaries; Corresponding Member of the Institut des Actuairees Français; Member of the Deutscher Verein für Versicherungs-Wissenschaft; Vice-President and Chief Actuary of the New York Life Insurance Company. <i>346 Broadway, New York, N. Y.</i>
1892,	Feb.	WELD, LAENAS GIFFORD, B.Sc., M.A.; Professor of Mathematics and Astronomy, State University of Iowa, Iowa City, Ia.
1908,	Dec.	WELLS, MARY EVELYN, B.A., M.Sc.; Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass.
1891,	Apr.	WELLS, WEBSTER, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.

Date of Admission.		
1910,	Apr.	WENTWORTH, GEORGE. Exeter, N. H.
1897,	Feb.	WERNICKE, AUGUST LUDWIG PAUL, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung. <i>2560 Moorman Avenue, Cincinnati, Ohio.</i>
1897,	Dec.	*WESTERN, ALFRED EDWARD, Sc.D.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society. <i>36 Lancaster Gate, London, W., England.</i>
1902,	Dec.	WESTFALL, W. D. A., B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Missouri, Columbia, Mo.
1898,	Aug.	WESTLUND, JACOB, Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Purdue University, Lafayette, Ind. <i>130 Andrew Place, West Lafayette.</i>
1892,	Nov.	WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); EX-PRESIDENT; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the <i>Transactions of the American Mathematical Society</i> ; Professor of Mathematics, Vassar College, Poughkeepsie, N. Y.
1910,	Dec.	WHITE, MARION BALLANTYNE, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Kansas, Lawrence, Kan. <i>1108 Ohio Street.</i>
1909,	Sept.	WHITFORD, EDWARD EVERETT, M.A.; Tutor in Mathematics, College of the City of New York, New York, N. Y. <i>523 West 151st Street.</i>
1902,	Apr.	WHITNEY, ALBERT WURTS, B.A.; Assistant Professor of Mathematics and Insurance Methods, University of California, Berkeley, Cal. <i>33 Canyon Road.</i>
1897,	Dec.	*WHITTAKER, EDMUND TAYLOR, M.A., Sc.D., F.R.S.; Member of the London Mathematical Society; F.R.A.S.; Royal Astronomer of Ireland. <i>Dunsink Observatory, Castleknock, County Dublin, Ireland.</i>
1897,	Feb.	*WHITEMORE, JAMES KELSEY, M.A.; Editor of the <i>Annals of Mathematics</i> ; Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. <i>371 Harvard Street.</i>
1908,	Apr.	WILBUR, RALSTON THORNTON, B.A., M.E.; Member of the American Society of Mechanical Engineers; Con-

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admission.

		sulting Mechanical Engineer; Professor of Physics and Mechanical Engineering, Christian Brothers College, St. Louis, Mo.
1899,	Feb.	WILCZYNSKI, ERNEST JULIUS, Ph.D. (Berlin); Member of the Circolo Matematico di Palermo; Associate Editor of the <i>Transactions of the American Mathematical Society</i> ; Associate Professor of Mathematics, University of Chicago, Chicago, Ill. 5510 Washington Avenue.
1892,	May	WILLARD, JOSEPH MOODY, B.A.; Professor of Mathematics and Secretary to the Council, Pennsylvania State College, State College, Pa.
1895,	May	WILLIAMS, CLARKE BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. 214 Stuart Avenue.
1892,	May	WILLIAMS, ELLA CORNELIA, M.A. 30 West 55th Street, New York, N. Y.
1905,	Sept.	WILLIAMS, JOHN EDWARD, M.A., Ph.D. (Virginia); Professor of Mathematics, Virginia Polytechnic Institute, Blacksburg, Va.
1898,	Apr.	WILLIAMS, WILLIAM HILL, M.A.; Professor of Mathematics, Wisconsin State Normal School, Platteville, Wis.
1891,	May	WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. P. O. Box 63.
1901,	Oct.	WILSON, ALBERT HARRIS, M.Sc.; Associate Professor of Mathematics, Haverford College, Haverford, Pa.
1906,	Apr.	WILSON, ALBERT MILLER, M.A.; Teacher of Mathematics, McKinley High School, St. Louis, Mo.
1904,	Sept.	WILSON, DELONZA TATE, M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, Ohio.
1899,	Dec.	WILSON, EDWIN BIDWELL, B.A., Ph.D. (Yale); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the American Physical Society; Member of the London Mathematical Society; Member of the Supervisory Board of the <i>American Year Book</i> ; Associate Editor

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Admission.

- of the *Transactions of the American Mathematical Society*; Associate Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *16 Lee Street, Cambridge, Mass.*
- 1900, Dec. WILSON, NORMAN RICHARD, M.A., Ph.D. (Chicago); Professor of Mathematics, Wesley College, University of Manitoba, Winnipeg, Canada. *181 Spence Street, Suite 2.*
- 1903, Oct. WILSON, ROBERT EDWARD, B.Ph., M.A.; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Northwestern University, Evanston, Ill. *2015 Sherman Avenue.*
- 1910, Apr. WILSON, WALLACE ALVIN, B.A.; Instructor in Mathematics, Yale University, New Haven, Conn. *135 Edgewood Avenue.*
- 1899, Dec. WOOD, RUTH GOULDING, B.L., Ph.D. (Yale); Associate Professor of Mathematics, Smith College, Northampton, Mass. *249 Crescent Street.*
- 1895, Oct. WOODS, FREDERICK S., M.A., Ph.D. (Göttingen); Member of the Société Mathématique de France; Editor of the *Annals of Mathematics*; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *123 Sumner Street, Newton Centre, Mass.*
- 1891, May \*WOODWARD, ROBERT SIMPSON, C.E., Ph.D., Sc.D., LL.D.; Ex-PRESIDENT; Member of the National Academy of Sciences; Associate Editor of *Science*; President of the Carnegie Institution of Washington. The Carnegie Institution, Washington, D. C.
- 1891, May WORTHEN, THOMAS WILSON DORB, M.A.; Professor of Mathematics, Dartmouth College, Hanover, N. H.
- 1908, Apr. WORTHINGTON, EUPHEMIA RICHARDSON, B.A., Ph.D. (Yale); Instructor in Mathematics, Wellesley College, Wellesley, Mass. *165 Pawling Avenue, Troy, N. Y.*
- 1898, Oct. WRIGHT, WALTER CHANNING, Member of the Actuarial Society of America; Consulting Actuary. *45 Milk Street, Room 701, Boston, Mass.*
- 1902, Oct. YANNEY, BENJAMIN FRANKLIN, M.A.; Member of the Circolo Matematico di Palermo; Richard Brown Professor of Mathematics, Mount Union College, Alliance, Ohio.
- 1903, Dec. YOUNG, ARCHER EVERETT, B.A., Ph.D. (Princeton); Member of the Deutsche Mathematiker-Vereinigung:

Date of Admission.		
		Professor of Mathematics, Miami University, Oxford, Ohio.
1891,	May	YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Associate Professor of the Pedagogy of Mathematics, University of Chicago, Chicago, Ill. <i>5422 Washington Avenue.</i>
1902,	Feb.	YOUNG, JOHN WESLEY, M.A., Ph.D. (Cornell); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the <i>Bulletin of the American Mathematical Society</i> ; Collaborator of the <i>Bulletin des Sciences Mathématiques</i> ; Professor of Mathematics, University of Kansas-Lawrence, Kan. <i>1702 Massachusetts Street.</i>
1893,	Mar.	YOWELL, EVERETT IRVING, M.Sc., C.E.; Chief Assistant in the Cincinnati Observatory, Cincinnati, Ohio.
1891,	Apr.	ZIWET, ALEXANDER, C.E.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the <i>Bulletin of the American Mathematical Society</i> ; Professor of Mathematics, University of Michigan, Ann Arbor, Mich. <i>644 South Ingalls Street.</i>

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Number of members, January 1, 1910.....	618
Number of members, January 1, 1911.....	641
Members admitted during the year 1910.....	37
Members withdrawing during the year 1910.....	14
Number of life members.....	60



# CONSTITUTION

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## ARTICLE I.

This Society shall be called the AMERICAN MATHEMATICAL SOCIETY.

## ARTICLE II.

The object of the Society shall be to encourage and maintain an active interest in mathematical science.

## ARTICLE III.

The officers of the Society shall be a President, two Vice-Presidents, a Secretary, a Treasurer, a Librarian, and a Committee of Publication to consist of three members who at the same time may hold individually any of the other offices.

## ARTICLE IV.

The officers of the Society, the ex-Presidents, the Editorial Committee of the Transactions, and twelve other members of the Society shall constitute a Council, which shall have general charge of the affairs of the Society.

## ARTICLE V.

1. The officers of the Society and four other members of the Council shall be elected by ballot at the Annual Meeting of each year. An official ballot shall be sent to each member at least one month prior to the Annual Meeting, and such ballots, if returned to the Secretary in envelopes bearing the names of the voters, shall be counted at the Annual Meeting. Each such ballot shall contain a name proposed by the Council for each vacancy, with blank spaces in which the voter may substitute other names. A majority of all votes cast in person or by mail shall be necessary to election. In case of failure to secure a majority for any office, the members present at the Annual Meeting shall choose by ballot between the two having the highest number of votes. The members of the Editorial Committee of the Transactions shall be appointed by the Council.

2. The ex-Presidents of the Society shall be permanent members of the Council; the term of office otherwise shall be two years for the President, one year for other officers, and three years for other members of the Council, and until their successors shall be elected. For election as President shall be eligible those members of the Society who have served in the office of Vice-President and who are not holding office as President or Vice-President; and for election

as Vice-President shall be eligible those members of the Society not holding office as President or Vice-President. No elected member of the Council, having completed a term of three years, shall be reelected until at least one year shall have intervened.

3. If the President of the Society die or resign before the expiration of his term of office, the Council may designate one of the Vice-Presidents to serve as Acting President until the next Annual Meeting, when a President shall be elected by the Society. Such vacancies as may exist at any time among the other offices may be filled by the Council. If any elected member of the Council die or resign more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society at the next Annual Meeting.

#### ARTICLE VI.

This Constitution shall not be amended unless notice of the proposed amendment be sent by mail to every member of the Society at least four weeks in advance of the meeting at which such amendment is to be considered; and such amendment in order to be adopted must receive two-thirds of the votes cast in person and by mail.

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### BY-LAWS

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#### I.

The election of new members of the Society shall be by vote of the Council. Application for admission shall be made by the applicant personally, on blanks provided by the Secretary, and shall be endorsed by two members of the Society. Such applications, being received at any meeting of the Council, shall be laid over for action at any subsequent meeting.

#### II.

1. Persons elected by the Council, as provided in By-Law I, shall be admitted to membership in the Society upon the payment, within sixty days of the date of their election, of an initiation fee of five dollars.

2. The annual dues shall be five dollars, payable on the first of January. Each new member shall pay in proportion to the unexpired fraction of the year at the time of his election. Should the annual dues of any member remain unpaid beyond a reasonable time, the Council shall remove his name from the list of members, after due notice.

3. On the payment of fifty dollars in one sum, any member of at least four years standing and not in arrears of dues may become a life member and shall thereafter be exempt from all annual dues.

## III.

The times and places of meetings of the Society shall be designated by the Council, but the Annual Meeting shall be held on a date between the twenty-sixth and thirty-first of December, inclusive; and Regular Meetings shall be held on the last Saturday of February, April, and October, unless otherwise ordered by the Council. Notice of the time and place of each meeting shall be sent by the Secretary to all members of the Society.

## IV.

Whenever it shall appear to the Council that a sufficient number of members of the Society are desirous of conducting in any locality periodic meetings for the reading and discussion of mathematical papers, the Council may authorize the formation of a Section to be composed at each sectional meeting of such members of the Society as may be present; and the Council shall have the right to withdraw such authorization.

## V.

Papers intended for presentation at any meeting or sectional meeting of the Society shall be passed upon in advance of the meeting by a programme committee appointed by or under the authority of the Council; and only such papers shall be presented as shall have been approved by such committee. Papers in form unsuitable for publication, if accepted for presentation, shall be referred to on the programme as preliminary communications or reports.

## VI.

1. The order of business at the meetings of the Society shall be as follows:

1. Reading of the minutes.
2. Recommendations and reports.
3. Elections.
4. Miscellaneous business.
5. Presentation and discussion of papers previously approved by the programme committee.

2. No question relative to administration shall be considered at any meeting except the Annual Meeting without the recommendation of the Council.

## VII.

It shall be the duty of each President to deliver an address before the Society at the Annual Meeting at which his term of office expires.

## VIII.

1. The President may convoke the Council whenever the affairs of the Society require it.

2. A request in writing from two members of the Council shall render the convocation obligatory.

## IX.

1. The Society shall publish a periodical of critical and historical nature, called the BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The BULLETIN shall be in charge of the Committee of Publication, which may associate with itself other members of the Society whose editorial assistance it may require.

## X.

1. The Society shall publish a periodical which shall have for its object to make known, as widely as possible, the more important researches presented at the meetings of the Society. This periodical shall be called the TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The editorial management of the TRANSACTIONS shall be entrusted to a committee of three editors, to be appointed by the Council. One editor shall be appointed annually at the April meeting, to serve for three years. Each editor shall begin his term of office on the first day of October of the year in which he is appointed. Members of the committee shall be eligible for reappointment. If a member of the committee die or resign before the completion of his term of office, the vacancy shall be filled for the unexpired term by the Council.

3. The editorial committee shall have power to elect one of its members as editor-in-chief; but if at any time the committee shall report to the Council that it has been unable to agree upon an editor-in-chief, the Council shall designate one of the members of the committee to act as editor-in-chief. The committee shall have power to associate with itself other members of the Society whose editorial assistance it may require.

4. The TRANSACTIONS shall not be distributed free to the members of the Society; but members of the Society shall have the right to subscribe to the TRANSACTIONS at three-fourths of the advertised price.

## XI.

No by-law shall be enacted, amended or suspended, except by a two-thirds vote of the members present at a meeting of the Society, and upon the recommendation of the Council.

## ANNUAL REPORTS

### REPORT OF THE TREASURER FOR THE YEAR 1910

#### RECEIPTS

Balance from 1909.....	\$ 8,003.78
Annual dues for 1908.....	122.00
Annual dues for 1909.....	312.50
Annual dues for 1910.....	2,058.70
Annual dues for 1911.....	35.00
Annual dues for 1912.....	5.00
Dues from new members for parts of the year 1909.....	4.25
Dues from new members for parts of the year 1910.....	74.17
Initiation fees for 1909.....	40.00
Initiation fees for 1910.....	155.00
Life membership fees.....	150.00
Sale of reprints.....	113.20
Royalties .....	13.87
Sale of BULLETIN.....	617.55
Sale of TRANSACTIONS.....	915.59
Interest on investments and bank deposits.....	333.47
Advertisements in BULLETIN.....	206.00
Exchange .....	.01
	<u>\$13,160.09</u>

#### DISBURSEMENTS

Expenses of the Secretary's office.....	\$ 678.94
Expenses of the Treasurer's office.....	160.88
Expenses of the Library (including Catalogue).....	151.58
Expenses of the Committee of Publication.....	105.67
Expenses of the Editorial Committee of TRANSACTIONS...	212.69
Publication of BULLETIN (ten numbers).....	1,538.06
Publication of TRANSACTIONS (four numbers).....	1,662.59
Annual Register.....	171.65
Expenses of the Chicago Section.....	91.91
Expenses of the San Francisco Section.....	10.51
Expenses of the Southwestern Section.....	16.47
Euler Publication subscription (first installment, 1,000 francs) .....	194.20
Insurance .....	39.80
Exchange .....	.61
	<u>\$ 5,035.56</u>



Investments (par value, \$5,500).....	\$5,259.50
Balance in First National Bank (Ithaca).....	279.01
Balance in Ithaca Savings Bank.....	1,017.50
Balance in Union Square Savings Bank.....	1,568.52
	<hr/>
	\$ 8,124.53
	\$13,160.09

The Life Membership Fund now amounts to \$3,901.83.

J. H. TANNER,  
*Treasurer.*

ITHACA, N. Y., December 14, 1910.

### REPORT OF THE AUDITING COMMITTEE

The undersigned Auditing Committee, appointed by the American Mathematical Society, have this day examined the accounts of the Treasurer, compared them with the vouchers, bankbooks, and securities, and find the following to be correct:

Balance from December 18, 1909.....	\$ 8,003.78
Cash receipts since December 18, 1909.....	5,156.31
	<hr/>
	\$13,160.09

Balance in First National Bank (Ithaca).....	\$ 279.01
Balance in Ithaca Savings Bank.....	1,017.50
Balance in Union Square Savings Bank.....	1,568.52
Investments (par value, \$5,500.00).....	5,259.50
Disbursements since December 18, 1909.....	5,035.56
	<hr/>
	\$13,160.09

ARTHUR SULLIVAN GALE,  
J. I. HUTCHINSON,  
*Auditing Committee.*

ITHACA, N. Y., December 14, 1910.

### REPORT OF THE LIBRARIAN FOR THE YEAR 1910

The complete Catalogue of the Library, issued for the first time as a separate pamphlet in January, 1910, showed a total of 3,273 bound volumes on the shelves. To these should be added a collection of 500 unbound dissertations, and 91 bound dissertations of members of the Society.

The past year has been one of normal growth, the accessions amounting to 235 volumes. The North European dissertations accumulated since 1901, 112 in number, have been bound in sets according to universities and placed on the shelves. Of members' dissertations we have now an interesting collection, amounting to 105.

Negotiations are pending with several academies and societies for securing extensive sets of their publications. From time to time, as finances permit, efforts are also made to complete our sets of journals. Any assistance in this direction from members who may have favorable opportunities for negotiating exchanges will be greatly appreciated.

The table below shows the growth of the Library during the past nine years. The collection is becoming one of considerable value. Under favorable conditions it should ultimately become one of the largest and most important in the country.

DAVID EUGENE SMITH,  
*Librarian.*

NEW YORK, December 27, 1910.

	January 1, 1902.	January 1, 1906.	January 1, 1911.
Volumes of periodicals.....	32	1,769	2 67 5
Volumes, non-periodical.....	89	547	833*
Periodicals and exchange list. ....	64	164	178

\* Exclusive of unbound dissertations.

## LIBRARY RULES

1. Applications for books may be made in person, or by letter addressed to the AMERICAN MATHEMATICAL SOCIETY, 501 West 116th Street, New York. Members may, if they desire, apply in person directly to the superintendent of the loaning department of the Columbia University Library, where the Society's library is deposited. Books will be delivered directly to those applying in person, and will be sent to other applicants by express at the expense of the borrowers.

2. A book may be kept four weeks from the date of leaving the library, but the loan may be renewed from time to time by writing to the Society in advance of the day when the book is due.

3. Borrowers should return the books in person or by prepaid express.

# CATALOGUE OF THE LIBRARY

JANUARY 1, 1911

## I. JOURNALS

[The journals are listed alphabetically according to place of publication.]

### ACIREALE.

*Accademia di Scienze, Lettere, e Arti, Rendiconti e Memorie*, Ser. 3, Vols. 1-6 (1901-1909).

### AMSTERDAM.

*Nieuw Archief voor Wiskunde*, Ser. 1, Vols. 1-20; Ser. 2, Vols. 1-8 (1875-1909).

*Revue semestrielle des Publications mathématiques*, Vols. 1-18 (1893-1910). *Tables des Matières*, 1892-1907.

*Wiskundige Opgaven met de Oplossingen*, Vols. 1-9 (1882-1906).

### BALTIMORE.

*American Journal of Mathematics*, Vols. 1-32 (1878-1910); Index, Vols. 11-20.

### BERLIN.

*Akademie der Wissenschaften, math.-phys. Klasse. Abhandlungen* (selected mathematical memoirs), 1892-1894, 1897, 1901, 1903-1904, 1906-1909; *Monatsberichte*, 1857-1881, *Sitzungsberichte*, 1882-1909, Indexes, 1836-1858, 1859-1873, 1874-1881.

*Jahrbuch über die Fortschritte der Mathematik*, Vols. 15-38 (1883-1907).

*Journal für die reine und angewandte Mathematik*, Vols. 96-102, 106-107, 109, 125-138 (1884-1910).

*Sitzungsberichte der Berliner mathematischen Gesellschaft*, Vols. 1-4 (1901-1905).

*Unterrichtsblätter für Mathematik und Naturwissenschaften*, Vols. 9-15 (1903-1909).

*Veröffentlichungen d. K. Preuss. Geodätischen Instituts*, Nos. 1-2, 11, 19.

### BOLOGNA.

*Accademia delle Scienze, Memorie*, Ser. 5, Vols. 8-10; Ser. 6, Vols. 1-5 (1899-1908); *Rendiconti, New Series*, Vols. 4-12 (1899-1908).

### BORDEAUX.

*Société des Sciences de Bordeaux, Memoires*, Ser. 4, Vols. 1-5; Ser. 5, Vols. 1-5; Ser. 6, Vols. 1-4 (1893-1908); *Procès-verbaux*, 1894-1909; General Index, 1850-1900; Cinquantenaire, 1906.

### BOSTON.

*American Academy of Arts and Sciences, Proceedings*, Vols. 26-45 (1890-1910); *Memoirs*, Vols. 12-13 (1902-1908).

*Technology Quarterly*, Vols. 4-21 (last) (1891-1908).

### BRAY-SUR-SEINE.

*Journal des Géomètres-Experts*, Vols. 1-3, 9-17 (1893-1909).

## BRESLAU.

*Jahresbericht der Schlesischen Gesellschaft für vaterländische Cultur*, Vols. 80-82 (1903-1905).

## BRISBANE, QUEENSLAND.

*Proceedings of the Royal Society*, Vols. 15-19, 21-22 (1900-1910).

## BRUSSELS.

*Académie Royale, Annuaire*, 1835-1836, 1839, 1841-1845, 1848-1849, 1852-1865, 1902-1910; *Bulletin de la Classe des Sciences*, 1902-1909; *Mémoires de la Classe des Sciences*, Vol. 1 (1904-1907); *Mémoires couronnés et autres Mémoires*, Vols. 60-66 (1900-1904); *Mémoires couronnés et Mémoires des Savants étrangers*, Vols. 58-62 (1899-1904).

*Annales de la Société scientifique*, Vols. 26-34 (1902-1910); *Index*, 1875-1901.

*Annuaire astronomique de l'Observatoire Belgique*, 1906-1907.

## BUCHAREST.

*Gazeta Matematica*, Vols. 1-15 (1895-1910).

## BUDAPEST.

See LEIPZIG.

## BUENOS AIRES.

*Anales de la Sociedad Científica Argentina*, Vols. 55-68 (1903-1909).

## CAMBRIDGE, ENG.

*Cambridge Philosophical Society, Proceedings*, Vols. 10-15 (1899-1910); *Transactions*, Vols. 17-20 (1899-1908).

## CAMBRIDGE, MASS.

*Annals of Mathematics*, Ser. 1, Vols. 1-12; Ser. 2, Vols. 1-11 (1884-1910).

## CHERBOURG.

*Mémoires de la Société Nationale des Sciences naturelles et mathématiques de Cherbourg*, Vols. 31-32, 34-36 (1897-1907).

## CHICAGO.

*Astrophysical Journal*, Vols. 1-31 (1895-1910).

*The Monist*, Vols. 1-7, 9-20 (1890-1910).

*The Open Court*, Vols. 11-24 (1897-1910); *Index*, Vols. 1-20.

*School Science and Mathematics*, Vols. 3-10 (1903-1910).

*School Mathematics*, Vol. 1 (1904).

## CHRISTIANIA.

*Arkiv for Mathematik og Naturvidenskab*, Vols. 21-26 (1899-1904).

*Videnskabs-Selskabet i Christiania, Forhandlinger*, 1898-1899, 1901-1909; *Skrifter*, 1898-1909; *Oversigt*, 1898-1900.

## CITTÀ DI CASTELLO.

*Le Matematiche pure ed applicate*, Vols. 1-2 (last) (1901-1903).

## COIMBRA.

*Jornal de Sciencias mathematicas e astronomicas*, Vols. 9-15 (last) (1889-1905).

*Annaes Scientificos da Academia Polytechnica*, Vols. 1-4 (1906-1909).

## COPENHAGEN.

*Kgl. Danske Videnskabernes Selskab, Forhandlinger, Oversigt*, 1900-1909; *Skrifter* (See BOOKS OTHER THAN JOURNALS, under COPENHAGEN).

- Nyt Tidsskrift for Matematik*, Ser. A, Vols. 11-20 (1900-1909);  
Ser. B, Vols. 11-20 (1900-1909); General Register, 1859-1908.
- CRACOW.**  
*Bulletin International de l'Académie des Sciences de Cracovie*,  
1900-1909.  
*Katalog Literatury Naukowej Polskiej*, Vols. 2-9 (1902-1909).
- DENVER.**  
*Colorado Mathematical Society, Second Biennial Circular*, 1909.
- DES MOINES.**  
*The Analyst*, Vols. 1-10 (1874-1883) (complete).
- DUBLIN.**  
*Royal Dublin Society, Scientific Proceedings*, New Ser., Vols.  
1-11 (1878-1909); *Scientific Transactions*, Ser. 2, Vols. 1-9 (1877-  
1909); Index to *Proceedings and Transactions*, 1877-1898.  
*Royal Irish Academy, Proceedings*, Vols. 24-27 (1902-1909).
- EDINBURGH.**  
*Annals of the Royal Observatory*, Vol. 1 (1902).  
*Proceedings of the Mathematical Society of Edinburgh*, Vols.  
1, 11-28 (1883-1910); Index, Vols. 1-20.  
*Royal Society of Edinburgh, Proceedings*, Vols. 3-4, 10-12, 15-29  
(1850-1909); *Transactions*, Vols. 37-43, 45-46 (1891-1909).
- ERLANGEN.**  
*Sitzungsberichte der physikalisch-medizinischen Societät zu  
Erlangen*, Vols. 25-41 (1893-1909).
- FORT MONROE.**  
*Journal of the United States Artillery*, Vols. 1-34 (1892-1910).
- GHENT.**  
*Mathesis*, Ser. 1, Vols. 7-10; Ser. 2, Vols. 1-10; Ser. 3, Vols. 1-4  
10 (1887-1910).
- GLASGOW.**  
*Proceedings of the Glasgow Philosophical Society*, Vol. 30 (1898-  
1899).
- GÖTTINGEN.**  
*Gesellschaft der Wissenschaften, Nachrichten math.-phys. Klasse*,  
1892-1909; *Geschäftliche Mitteilungen*, 1894-1909.  
*Mathematischer Verein, Berichte*, 1901-1908.
- GRENOBLE.**  
*Annales de la Faculté des Sciences de l'Université de Grenoble*,  
Vols. 13-21 (1901-1909).
- HALIFAX.**  
*Proceedings and Transactions of the Nova Scotian Institute of  
Science*, Ser. 2, Vols. 1-2, 4 (1890-1904).
- HAMBURG.** See LEIPZIG.
- ITHACA.**  
*Bulletin of the American Physical Society*, Vols. 1-2, Vol. 3, No.  
1 (last) (1899-1902).  
*Journal of Physical Chemistry*, Vols. 1-13 (1896-1909).  
*Erlangen*, Vols. 25-40 (1893-1908).  
*Katalog Literatury Naukowej Polskiej*, Vols. 2-8 (1902-1909).  
*Nyt Tidsskrift for Matematik*, Ser. A, Vols. 11-19 (1900-1908);  
Ser. B, Vols. 11-19 (1900-1908).
- KASAN.**  
*Bulletin de la Société physico-mathématique de Kasan*, Ser. 2,  
Vols. 1-15 (1891-1906).



## KHARKOF.

*Communications of the Mathematical Society of Kharkof*, Ser. 2, Vols. 5-7, 9 (1897-1906).

## KIEFF.

*University Isvistija*, Vols. 43-49 (1903-1909).

## LAWRENCE.

*Kansas University Quarterly*, Ser. A, Vols. 9-10 (1900-1901).

*Kansas University Science Bulletin*, Vols. 1-4 (1905-1908).

## LEGHORN.

*Periodico di Matematica*, Ser. 1, Vols. 6-11; Ser. 2, Vols. 12-18; Ser. 3, Vols. 19-25 (1888-1910).

*Supplemento al Periodico di Matematica*, Vols. 2-13 (1898-1910).

## LEIPZIG.

*Archiv der Mathematik und Physik*, Ser. 3, Vols. 1-16 (1901-1910).

*Bibliotheca Mathematica*, 1887-1910.

*Jahresbericht der Deutschen Mathematiker-Vereinigung*, Vols. 1-10; New Ser., Vols. 11-18 (2 sets, except Vols. 1-4, 10) (1890-1909); *Ergänzungsband* 2 (1908).

*Mathematische Annalen*, Vols. 41-43, 45-69 (1893-1910).

*Mathematische und naturwissenschaftliche Berichte aus Ungarn*, Vols. 1-25 (1882-1910).

*Mittheilungen der mathematischen Gesellschaft in Hamburg*, Vols. 2-3 (1890-1900).

*Sächsische Gesellschaft der Wissenschaften, math.-phys. Classe; Abhandlungen*, Vols. 25-31 (1899-1909); *Berichte*, Vols. 45-60 (1893-1908).

*Zeitschrift für Mathematik und Physik*, Vols. 44-58 (1899-1910).

*Zeitschrift für mathematischen und naturwissenschaftlichen Unterricht*, Vols. 23-29 (1892-1898).

## LEMBERG.

*Sevcenko-Gesellschaft der Wissenschaften, Chronik*, 1904-1907.

*Sammelschrift, mathematisch-naturwissenschaftliche Section*, Vols. 9-12 (1903-1908).

## LICK OBSERVATORY, MT. HAMILTON.

*Lick Observatory Contributions*, Vols. 3-5 (1893-1895); *Publications*, Vols. 1-6, 10 (1887-1907).

## LIÈGE.

*Mémoires de la Société Royale des Sciences de Liège*, Ser. 2, Vols. 19-20; Ser. 3, Vols. 1-8 (1897-1909).

## LIMA.

*Revista de Ciencias*, Vols. 1-11 (1898-1908).

## LIVORNO. See LEGHORN.

## LONDON.

*Educational Times*, Vols. 50-62 (1897-1909).

*Gentleman's Diary*, 1815-1818.

*Ladies' Diary*, 1815-1826, 1835, 1837-1840.

*Lady's and Gentleman's Diary*, 1847, 1850-1854.

*Journal of the Institute of Actuaries*, Vols. 35-44 (1901-1910).

*Mathematical Gazette*, Vols. 1-4 (1896-1908).

*Messenger of Mathematics*, Vols. 6-7, 24-39 (1894-1910).

*Proceedings of the London Mathematical Society*, Vols. 1-35 (1865-1903); Ser. 2, Vols. 1-8 (1903-1910); *Index*, Vols. 1-30.

*List of Members*, 1865-1899, 1901, 1903-1907.

*Quarterly Journal of Pure and Applied Mathematics*, Vols. 31-41 (1899-1910).

*Royal Society, Philosophical Transactions*, Ser. A, Vols. 192-209 (1899-1909); *Proceedings*, Vols. 62-83 (1898-1910); *Year Book*, Vols. 1-2 (1896-1898).

# LUXEMBURG.

*Institut Grand-Ducal, Publications (Section des Sciences naturelles et mathématiques)*, Vols. 8-9, 15, 17-21, 23-27 (1865-1904); *Archives trimestrielles*, Vols. 1-4 (1906-1909).

# MADRAS.

*Journal of the Indian Mathematical Club*, Vol. 1 (1909).

# MADRID.

*Archivo de matematicas*, 1896-1897 (last).

*Real Academia de Ciencias, Memorias*, Vols. 14, 20, 22-26 (1890-1908); *Revista*, Vols. 1-7 (1904-1909).

# MANCHESTER.

*Memoirs and Proceedings of the Manchester Literary and Philosophical Society*, Vols. 37-53 (1892-1909).

# MARSEILLES.

*Annales de la Faculté des Sciences de Marscilles*, Vols. 11-13, 15-17 (1901-1908).

# MEXICO.

*Memorias y Rivista de la Sociedad Cientifica Antonio Alzate*, Vols. 2-26 (1888-1909).

# MILAN.

*Annali di Matematica pura ed applicata*, Ser. 3, Vols. 1-17 (1898-1910); *General Index*, 1850-1897.

*Reale Istituto Lombardo di Scienze e Lettere, Rendiconti*, Ser. 2, Vols. 33-41 (1900-1908); *Memorie*, Vol. 19 (1900).

# MODENA.

*Regia Accademia di Scienze, Lettere, ed Arti, Memorie*, Ser. 3, Vols. 1-7 (1898-1908).

# MONTPELLIER.

*Académie des Sciences et Lettres de Montpellier, Section des Sciences, Mémoires*, Ser. 2, Vols. 1-3 (1893-1908); *Bulletin Mensuel*, 1909.

# MOSCOW.

*Transactions of the Mathematical Society of Moscow*, Vols. 1-26 (1866-1908); *Index*, Vols. 1-15.

*University of Moscow, Physico-Mathematical Gazette*, Vols. 1, 4-11, 13-24 (1880-1908).

# MUNICH.

*Hochschul-Nachrichten*, Vol. 13 (1902-1903).

# NANCY.

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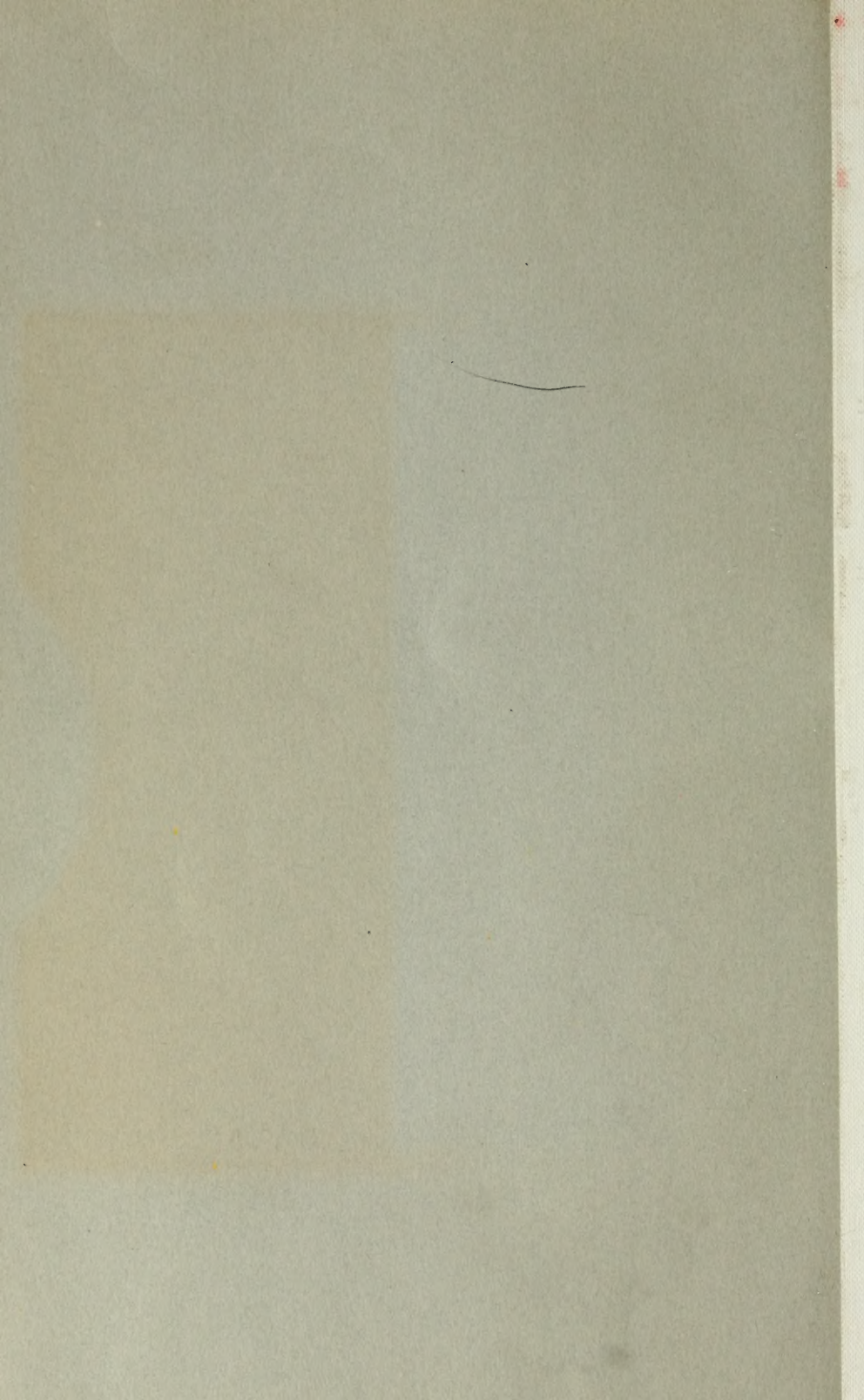
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